# 國家發展委員會

110年度政府網站易用性測試建議報告

〇〇〇〇〇 -知識結構學習功能

執行單位:中華民國資訊軟體協會中華民國110年12月

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#### 一、緣起

資訊科技應用蓬勃發展,民眾的日常生活與網路的連結越來越密切,政府網站設計良窳影響民眾對機關服務的觀感與評價,其中網站易用性測試(Usability Test)扮演至關重要的角色。依據國際 ISO 9241 的定義,易用性為服務的使用者在特定情境中為達特定目標,其所需具備之有效性(Effectiveness)、效率(Efficiency)與滿意度(Satisfaction)。易用性大師 Jakob Nielsen 曾撰寫系統易用性基本框架<sup>1</sup>,其中指出易用性係代表系統服務功能提供輕易與愉快的使用程度,且包含易學(Learnability)、易記(Memorability)、避免錯誤(Errors)、效率(Efficiency)及滿意度(Satisfaction)等元素。簡言之,使用者在使用機關的服務時,是否能獲得滿足的目標,使用情境與系統框架是否具易學、易記、避免錯誤與效率,即為易用性。因此,易用性測試即是測試上述五個面向之內容,檢視服務對於使用者的表現。

為推廣政府網站易用性之設計理念,降低機關網站導入使用者測試門 檻,國家發展委員會於 109 年設立政府網站易用性測試群眾外包 (Crowdsourcing)服務,110 年以民眾經常造訪、申辦網站為推動標的,範 圍涵蓋中央與地方政府網站,期透過群眾智慧雲端測試群機制,提供機關 便捷的網站使用者測試服務,降低機關網站導入使用者測試門檻,以有效 提升機關網站服務品質。同時,為普及推廣政府網站易用性之設計理念, 本測試成果報告置於政府網站交流平臺分享予各機關參考。

<sup>&</sup>lt;sup>1</sup> 資料來源: Jakob Nielsen,系統易用性基本框架,https://reurl.cc/O0zKpX。

#### 二、目的

機關經由政府網站易用性測試服務,瞭解使用者對網站服務的認知理解、情緒感受及阻礙問題,並可參考設計專家建議,研擬網站精進之方向,從而提升網站服務易用性與親和性,建構以民為本的政府網站服務環境。

#### 三、測試方法

依據「政府網站服務管理規範」附錄一:使用者中心設計建議。易用 性測試為執行步驟的關鍵任務之一,經常用來作為檢驗網站設計是否具有 良好的使用者體驗,目的是檢視既有的網站與服務,其使用者在操作的過 程上碰到什麼問題與阻礙。測試步驟如下:

- (一)說明測試目的與注意事項:讓測試者瞭解測試目的為協助機關提升網站易用性,並提醒測試者測試前不須過度準備與檢視網站任務,同時測試過程需須透過側錄軟體進行側錄。
- (二)執行任務:本測試採用放聲思考法作為評核方法,完成指派之任務。放 聲思考法為引導使用者在每一個互動過程中,將其內心的想法用語言表 達,幫助設計專家掌握使用者心理。
- (三)填寫測試結果紀錄表:請測試者寫下每個步驟操作當下的狀況。
- (四)填寫系統易用性量表:請測試者填寫系統易用性量表,測量使用者使用 服務的感受程度。
- (五)分析並提供建議:設計專家進行評估,依測試結果剖析流程可改善之方法。
- (六)彙整測試結果:進行彙整建議草案並提供受測單位確認。

#### 四、測試需求

## (一)基本資料

1.申請單位:〇〇〇〇

2.申請時間: 2021 年 4 月 28 日

3.網站名稱:○○○○○

4.網址: 00000

5.網站目標族群:國小到大學學生、家長及國小到高中教師

#### (二)測試標的

1.服務名稱:知識結構學習功能

2.服務目的:協助教師適性教學及學生個人化學習

3. 測試目的: 想瞭解知識結構頁面, 使用者是否快速找尋到所需的教材

4.預計完成操作時間:8分鐘

5.預期服務產出:無

#### 五、測試服務流程

目前服務流程需操作8個關鍵步驟,如下圖1。

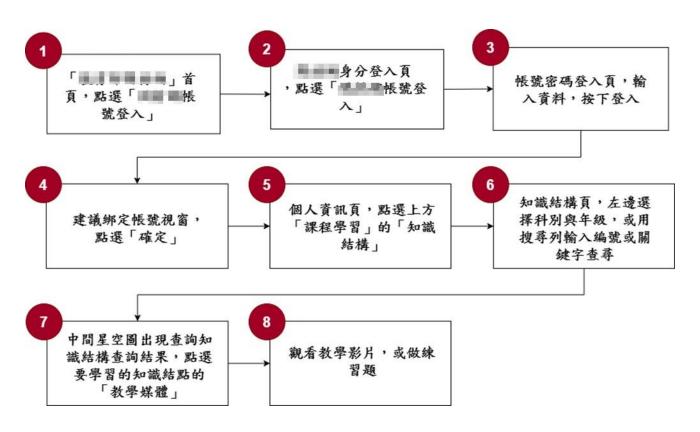


圖1:「○○○○-知識結構學習功能」服務流程關鍵步驟

# 六、測試成員背景

測試需求網站目標族群為國小到大學學生、家長及國小到高中教師, 測試者以符合目標族群為主,其它為輔。5位一般民眾與1位設計專家(如表1)進行機關網站易用性測試,平常皆慣用電腦和智慧型手機聯絡與工作 相關事務。

表1:測試成員相關背景

| 測試成員  | 性別 | 年龄   | 居住地 | 職業         | 同住子女<br>年齢 | 使用電腦<br>時間長度 |
|-------|----|------|-----|------------|------------|--------------|
| 測試者1  | 女性 | 55 歲 | 新竹縣 | 經營幕僚人員     | 8-19 歲     | 2~3 小時/天     |
| 測試者2  | 女性 | 21 歲 | 臺中市 | 大學生        | 無          | 4~5 小時/天     |
| 測試者3  | 女性 | 23 歲 | 高雄市 | 大學生        | 無          | 4~5 小時/天     |
| 測試者4  | 男性 | 50 歲 | 新北市 | 金融保險客戶服務人員 | 20 歲以上     | 2~3 小時/天     |
| 測試者 5 | 女性 | 39 歲 | 臺北市 | 業務銷售人員     | 3-7 歲      | 2~3 小時/天     |
| 設計專家  | 男性 | 41 歲 | 南投縣 | 設計師        | 無          | 6小時以上/天      |

# 七、測試結果分析

# (一)測試紀錄彙整

1.關鍵步驟遇到的困難及使用行為,彙整如下表2。

表2:關鍵步驟遇到的困難及使用行為

|   | 關鍵步驟     | 遇到的困難           | 順利的原因   | 須注意的狀況   |
|---|----------|-----------------|---------|----------|
|   | ГООООО   | 測試者 4: Google 搜 | 無       | 無        |
| 1 | 〇」首頁,點選  | 尋「00000」,搜      |         |          |
| 1 | 「〇〇〇帳號登  | 尋到錯誤的網站並        |         |          |
|   | 入」       | 進入。             |         |          |
|   | 〇〇〇身分登入  | 一般使用者不明白4       | 點選右下〇〇〇 | 無        |
| 2 | 頁,點選「〇〇  | 種登入的差異,4位       | 帳號登入。   |          |
| 2 | 〇帳號登入」   | 測試者選錯登入方        |         |          |
|   |          | 式。              |         |          |
|   | 帳號密碼登入   | 無               | 無       | 無        |
| 3 | 頁,輸入資料,  |                 |         |          |
|   | 按下登入     |                 |         |          |
|   | 建議綁定帳號視  | 無               | 無       | 登入後直接進到  |
| 4 | 窗,點選「確定」 |                 |         | 個人資訊無必要  |
| ľ |          |                 |         | 性,反而加長服務 |
|   |          |                 |         | 流程。      |
|   | 個人資訊頁,點  | 測試者1、2、設計專      | 無       | 無        |
| 5 | 選上方「課程學  | 家:並未直接點選此       |         |          |
|   | 習」的「知識結  | 功能。             |         |          |
|   | 構」       |                 |         |          |
|   | 知識結構頁,左  | 1. 知識結構複雜,只     | 無       | 無        |
|   | 邊選擇科別與年  | 有測試者 4 能成       |         |          |
| 6 | 級,或用搜尋列  | 功完成使用。          |         |          |
|   | 輸入編號或關鍵  | 2. 測試者1:完全沒     |         |          |
|   | 字查尋      | 有使用知識結構。        |         |          |

|   | 關鍵步驟    | 遇到的困難        | 順利的原因 | 須注意的狀況   |
|---|---------|--------------|-------|----------|
|   | 中間星空圖出現 | 1. 星空圖難以使用,  | 無     | 無        |
|   | 查詢知識結構查 | 字級過小,必須放     |       |          |
|   | 詢結果,點選要 | 大很多次才能看      |       |          |
|   | 學習的知識結點 | 清楚有箭頭及文      |       |          |
| 7 | 的「教學媒體」 | 字,但放大後難以     |       |          |
|   |         | 移動與操作。       |       |          |
|   |         | 2. 只有測試者 4 成 |       |          |
|   |         | 功透過節點跳至      |       |          |
|   |         | 教學媒體。        |       |          |
|   | 觀看教學影片, | 1. 提問問題無法使   | 無     | 雖與任務測試目  |
|   | 或做練習題   | 用。           |       | 的無關,但多數測 |
| 8 |         | 2. 影片無法回放及   |       | 試者反應課程列  |
|   |         | 快轉。          |       | 表不完善,搜尋篩 |
|   |         |              |       | 選課程的功能難  |
|   |         |              |       | 以使用。     |

2.測試者操作此服務時間較機關單位預期多11分45秒,完成平均時間: 19分45秒。測試成員操作服務時間與問題個數如表3。

表3:測試成員操作服務時間與問題個數

| 測試成員  | 測試完成時間    | 無法自行解決之<br>問題個數 | 可透過其他方式獲得 所須資訊之問題個數 |
|-------|-----------|-----------------|---------------------|
| 測試者1  | 15 分 54 秒 | 9               | 7                   |
| 測試者 2 | 17分15秒    | 3               | 11                  |
| 測試者3  | 20 分      | 8               | 7                   |
| 測試者4  | 27 分 57 秒 | 2               | 6                   |
| 測試者 5 | 21 分 52 秒 | 0               | 7                   |
| 設計專家  | 15 分 29 秒 | 1               | 2                   |

3.透過系統易用性量表(System Usability Scale,SUS)瞭解使用者的認同程度,本服務 SUS 分數<sup>2</sup> 平均為 25 分,如表 4。

使用者的感受來自於使用網站的總體印象,此測量為一般民眾使用網站服務後施行,對每個題目進行 1-5 點評分(非常同意為5點,非常不同意為1點)。根據易用性量表研究建議,SUS分數均值為68分,若測量分數在均值以下者,則表示其服務易用性急需改善。此SUS分數僅作示範及參考用。

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<sup>&</sup>lt;sup>2</sup> 依 SUS 計算公式而得,奇數題將各題的分數減 1,得到每題的分數;偶數題用 5 減去每一題的分數,得到每題的分數。所有題目分數加總乘以 2.5,即 SUS 總分。相關參考網站: https://reurl.cc/R1qjDx、

表4:系統易用性量表

| 序  | 問題                               | 測試者1<br>評分 | 測試者2 評分 | 測試者3 評分 | 測試者4 評分 | 測試者5 評分 |
|----|----------------------------------|------------|---------|---------|---------|---------|
| 1  | 我想我會願意經常使用這 個網站。                 | 2          | 2       | 3       | 1       | 2       |
| 2  | 我覺得這個網站過於複雜。                     | 5          | 4       | 4       | 5       | 5       |
| 3  | 我認為這個網站很容易使 用。                   | 2          | 2       | 3       | 1       | 1       |
| 4  | 我想我需要有人幫助才能<br>使用這個網站。           | 3          | 3       | 4       | 5       | 5       |
| 5  | 我覺得這個網站的功能整<br>合得很好。             | 3          | 3       | 2       | 1       | 2       |
| 6  | 我覺得這個網站有太多不<br>一致的地方。            | 3          | 3       | 4       | 3       | 3       |
| 7  | 我可以想像大部份的人很<br>快就可以學會使用這個<br>網站。 | 1          | 2       | 2       | 1       | 1       |
| 8  | 我覺得這個網站使用起來<br>很麻煩。              | 5          | 4       | 3       | 5       | 4       |
| 9  | 我很有自信能使用這個網站。                    | 3          | 2       | 3       | 1       | 3       |
| 10 | 我需要學會很多額外的資訊,才能使用這個網站。           | 4          | 3       | 3       | 5       | 4       |
| 總分 |                                  | 27.5       | 35      | 37.5    | 5       | 20      |
| 分數 | :均值                              | 25         |         |         |         |         |

## (二)關鍵議題

根據使用者測試的結果(請參見附件一),整理出4項關鍵議題。

#### 1.對外網站名稱未統一

網站名稱為「〇〇〇〇〇」,但測試者在 Google 搜尋列搜尋「〇〇〇〇〇」後,搜尋結果第1項非屬〇〇〇網站,容易讓民眾混淆(如圖2)。



圖2:在Google 搜尋「〇〇〇〇」結果有誤

## 2.網站登入頁面未提供不同登入方式說明或告知使用者差異

○○○登入頁面未針對 4 種登入方式做說明,一般使用者不瞭解 教育雲、學習拍、○○○帳號的差異(如圖 3),4 位測試者無法選擇正 確的登入方式,導致任務流程中斷。



圖3:○○○登入頁面未針對各個入口做說明

#### 3.知識結構功能複雜且難以理解與操作

知識結構功能操作困難,使用者難以理解與使用,即便是詳讀完 說明,使用者仍覺得難以操作,最後只有測試者4有完成知識結構功 能的使用。全圖瀏覽時,文字及線條過小,導致無法清楚瀏覽(如圖4)。 若將局部範圍放大瀏覽,其他節點資料則無法看到(如圖5)。



圖4:「星空圖」全圖瀏覽模式文字過小

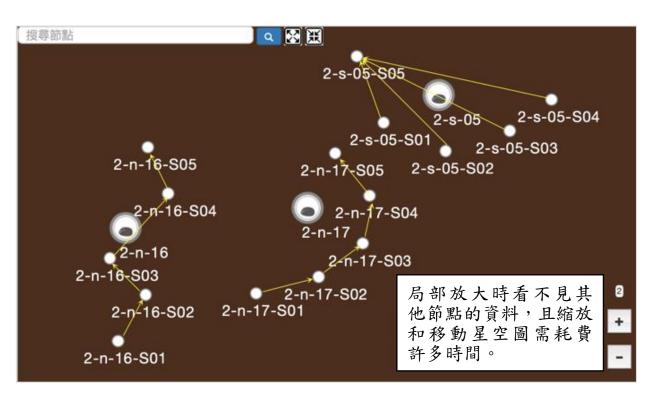


圖5:「星空圖」局部瀏覽模式無法看到其他節點

節點位置位於右下方並預設為 0,按鈕過小且未於頁面提供子節點功能說明與可點選的課程(如圖 6),使用者須認真觀看教學影片,才知道到畫面右下方有數字 1、2、3的按鈕是可切換看到子節點,若使用者未觀看教學影片,則難以發現。

點選按鈕切換後會看到子節點,方能前往課程。子節點編號的命名為 2-n-05-S05,使用者無法理解其編號名稱的意義(如圖 7)。



圖6:節點預設為0的「星空圖」頁面無法看到節點與課程



圖7:節點切換到2的「星空圖」頁面顯示節點與課程

#### 八、建議方案

〇〇〇〇〇「知識結構學習功能」,根據測試結果分析的 3 項關鍵議題「對外網站名稱未統一」、「網站登入頁面未提供不同登入方式說明或告知使用者差異」及「知識結構功能複雜且難以理解與操作」,整理出 3 項建議方案,詳細說明如下:

### (一)網站名稱統一更名為○○○

建議捨棄「〇〇〇〇」的網站名稱,統一使用「〇〇〇」。前者冗長難記,且雙名稱無法集中品牌力道,使用者不易記住。

#### (二)提供明確的登入身分說明

非教育體系的使用者較不清楚 4 種登入方式的差異,所以使用者會依照視覺順序優先使用左上方的方式進行登入。登入頁面建議提供說明,以引導使用者依帳號身分至不同入口進行登入(如圖 8)。

#### 請依您的帳號身份登入

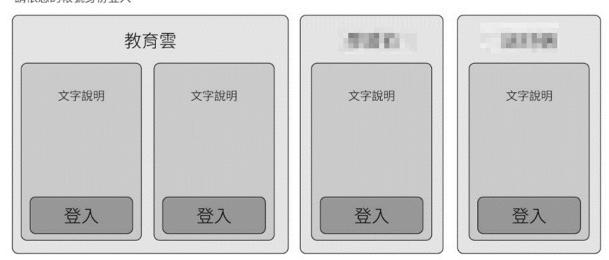


圖8:以身分引導登入入口選擇範例

#### (三)改以其它方式替代知識結構的功能

知識結構功能立意良好,但使用者實際操作上非常難以理解與使用,因星空圖的整體操作體驗上有難度,建議調整此呈現方式,改以其它方式替代。替代方案可於課程列表規劃好學習流程,並顯示學習進度,例如「學習吧」之課程列表(如圖 9),或使用類似學習地圖或流程圖(如圖 10、圖 11)等簡易操作的圖示來表示,讓使用者更易使用服務。



圖9:「學習吧」課程列表

資料來源:https://www.learnmode.net/course/144167

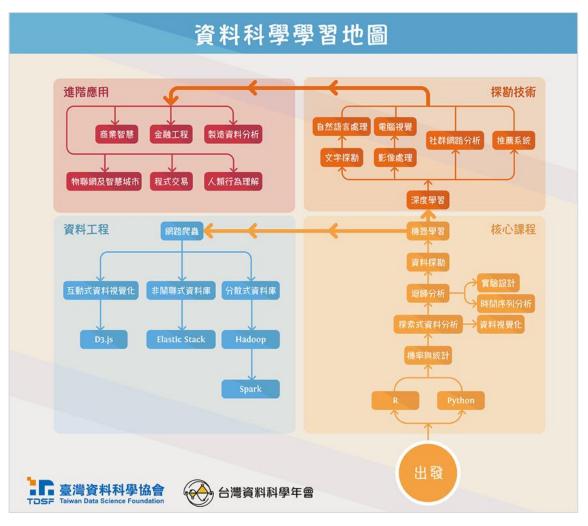


圖10:「臺灣資料科學協會」之「學習地圖」

資料來源:https://reurl.cc/O0Z96v



圖11 :「藍眼知識學院」之「學習地圖」

資料來源: https://academy.blueeyes.tw/LearningMap.php

以上 3 項建議方案,依據使用者測試過程中易發生中斷點與易用性五面向評估,列出網站服務優化順序如下表 5,依數字小為優先,即在使用者的操作過程中,使用者是否能感受到立即性的改善,並解決主要問題為優先項目,作為機關後續網站優化的參考依據。

表5:網站服務優化順序

| 關鍵議題                        | 建議方案                | 優化順序 | 易用性面向            |
|-----------------------------|---------------------|------|------------------|
| 對外網站名稱未統一                   | 網站名稱統一更名為〇〇〇        | 1    | 易記<br>避免錯誤       |
| 網站登入頁面未提供 不同登入方式說明或 告知使用者差異 | 提供明確的登入身分說明         | 2    | 易學<br>效率<br>避免錯誤 |
| 知識結構功能複雜且難以理解               | 改以其它方式替代知識結構<br>的功能 | 3    | 易學<br>效率<br>滿意度  |

## 九、結語

本易用性測試以評估網站服務流程現況為基礎,分析使用者測試結果, 彙整使用過程之關鍵議題,提出協助服務提供者與服務使用者省工、省時 之建議,依據改善優先順序列點如下:

- A.網站名稱統一更名為〇〇〇
- B.提供明確的登入身分說明
- C.改以其它方式替代知識結構的功能

以上建議方案提供〇〇〇〇〇「知識結構學習功能」服務未來精進方 向與設計參考,建議後續會同利害關係人(包含服務提供者、服務使用者、 系統開發廠商等)一同研擬實際可落實之執行細節,讓政府網站服務品質 更臻完善。

# 附件一:測試紀錄表

測試狀況數字與方框底色代表意義如下。

1(白底色)表示:順利完成;

2(黄底色)表示:有一些問題但可自行解決;

3(紅底色)表示:無法完成,如無法進入下一頁或是選錯。

# 測試者1:

| 頁面 | 000首頁                                                            | 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 000登入畫面                                  | 建議綁定帳號 小畫面 | 個人資訊                                      |
|----|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------|-------------------------------------------|
| 名稱 |                                                                  | 選擇登入身分的首頁                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |            |                                           |
| 畫面 | ● 教育部へ独領報告元: 守護政策線上學第一共課程 - 教學與於是方式 - 教授學校以傳性多元<br>方式進度 - 宣音校展課之 | CHAPE  CH | 田田田田田田 ・ 日本日田田田田田田田田田田田田田田田田田田田田田田田田田田田田 |            | (A. A. A |
|    | 狀況:1                                                             | 狀況:2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 狀況:1                                     | 狀況:1       | 狀況:1                                      |
| 碰到 | 點000000-000帳                                                     | 點右上"登入"還是停留在                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 輸入帳密後順利登入                                | 依建議按確定     | 進來停在個人資訊頁面,想                              |
| 的狀 | 號登入                                                              | 這頁,點右下"〇〇〇〇                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |            | 直接找看有什麼課程.                                |
| 況或 |                                                                  | 〇"〇〇〇帳號登入.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |            | 看到上面有課程學習選單,                              |
| 問題 |                                                                  | 覺得這個頁面好像多餘的                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |            | 游標移過去出現下拉選單                               |
|    |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |            | 有"課程列表"於是選進去.                             |

| 頁面     | 課程學習-國語文         | 課程學習-國語文                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 系統訊息      | 課程學習-英文                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 訊息視窗                                    |
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| 名稱     |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
| 畫面     | NEXT   NEXT   NO | THE PROPERTY OF THE PROPERTY O | ##        | SERVICE LINEARS BEAUTIFUL TO AND AND THE SERVICE BEAUTIFUL TO AND THE SERV | ### 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
|        | 狀況:2             | 狀況:2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 狀況:1      | 狀況:3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 狀況:2                                    |
|        | 左邊選單,只看到國語文及     | 只看到國語文相關課程,正                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 不像錯誤直接按確定 | 到英文課程學習頁面了,但                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 出現網路壅塞提示,直接按                            |
| r¥ 조리  | 國語文 108,選了國語文    | 在納悶時,看到上面淡灰色                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 其實看不太懂這頁面的課                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ok 回英文課程學習頁面                            |
| 碰到     | 108還沒選好,畫面却變     | 的字,原來是預設停在國語                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 程分類方式.看到一半,系統                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |
| 的狀況或   | 了.               | 文                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | 自動跳出下頁訊息                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |
| 問題     | 後來覺得,它應等我全部選     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
| 141768 | 完,給我按確定才出現課程     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|        | 學習畫面,我後面就不會走     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
|        | 好多冤枉路            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
| 碰到     |                  | 狀況:1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
| 的狀     |                  | 點選英文                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
| 況或     |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |
| 問題     |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |









| 頁面<br>名稱 | 上課課程頁面                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 教學媒體                                             | 訊息視窗                                          | 上課課程頁面                                                                                                                                        | 線習題                                           |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 畫面       | Part   Part | 数學媒體(影片)<br>************************************ | COSSIDER PARE ARREST STREET                   | ### 6 2 - cet 2 Sect 4 Revision 6 Revision 5 Revision 5 To 6 - cette 5. 0 CREATED 6 Faced 4 cette 5 To 7 - 20 - 20 - 20 - 20 - 20 - 20 - 20 - | (2) 日本の   |
| 碰的況問     | 狀況:1<br>可以順利上課了.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 狀況:1<br>知道有 youtobe 的教學媒<br>體可以看.先關掉,回教室         | 狀況:1<br>出現因為剛才跳離頁面,暫<br>停撥放,點 ok 關掉,回教學<br>頁面 | 狀況:1<br>試點右邊"練習題"功能                                                                                                                           | 狀況:3<br>也是到 youtobe,不知這樣<br>怎練習?結果只是教學影<br>片. |
| 碰到 的狀    | 狀況:3<br>試著用頁面右邊的功能<br>>可以做筆記->會了<br>>提問,看不懂誰如何回答<br>我?<br>>問題,不知做什麼用?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |                                               |                                                                                                                                               | 狀況:1<br>關掉,再回教室                               |
| 碰的 況 問題  | 狀況:1<br>試點右邊教學媒體                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |                                               |                                                                                                                                               |                                               |

| 頁面   | 訊息視窗                                                                                                                                                                                                                        | 上課課程頁面                            | 課程結束畫面                           | 課程結束             |  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------|------------------|--|
| 名稱   |                                                                                                                                                                                                                             |                                   |                                  |                  |  |
| 畫面   | CHARLES AND CONTROL OF THE CONTROL OF T | ### 2021_06_08_20_15_44_439       | 新規 2021 06 08 20 15 44 439       | ***              |  |
| 碰的況問 | 狀況:1<br>出現因為剛才跳離頁面,暫<br>停撥放,點 ok 關掉,回教學<br>頁面                                                                                                                                                                               | 狀況:3<br>試點右邊"向上精進""向下<br>扶助",不能用? | 狀況:1<br>課程撥放完成,出現確認小<br>視窗,按確認離開 | 總共發生時間 15 分 54 秒 |  |
| 碰到   |                                                                                                                                                                                                                             | 狀況:3                              | 狀況:1                             |                  |  |
| 的狀   |                                                                                                                                                                                                                             | 課程卡卡的,網路塞住了                       | 在這才發現,原來這門課沒                     |                  |  |
| 況或   |                                                                                                                                                                                                                             |                                   | 有"向上精進"跟"向下扶                     |                  |  |
| 問題   |                                                                                                                                                                                                                             |                                   | 助"的課程連結                          |                  |  |
| 碰到   |                                                                                                                                                                                                                             | 狀況:3                              |                                  |                  |  |
| 的狀   |                                                                                                                                                                                                                             | 不能自由回放或前進,當我                      |                                  |                  |  |
| 況或   |                                                                                                                                                                                                                             | 想快轉或重聽前面一小段                       |                                  |                  |  |
| 問題   |                                                                                                                                                                                                                             | 時不行.                              |                                  |                  |  |

測試者2:

| 頁面 名稱 | 登入畫面                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 碰的況問  | 狀況:1<br>順利找到登入入口                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 狀況:2<br>因任務給予台中市的學校<br>作測驗,因此誤會了登入<br>入口,花了一段時間才發<br>現進錯地方,最後才回到<br>正確入口                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                                   | 狀況:2<br>選擇完左側篩選欄後,發<br>現沒有出現任何內容,因<br>此點選課程總覽,但打開<br>卻不是預期的學習內容,<br>而是表格,雖然檔案名稱<br>有表示,但還是誤會了。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 狀況:3<br>進入後無法明白此頁面的<br>功能為何,點選白色節點<br>似乎也無法明白,最後看<br>到左下角的操作說明後,<br>才有稍微理解                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 頁面 名稱 | 課程學習-互動學習                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 練習筆畫頁面                                    | 練習生字部首                                                                | 課程列表                                    | 互動學習-除法教學媒體                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| 碰的沉問  | 狀況:2<br>選擇國文/三年級的選項,卻<br>沒有出現相關內容,也沒有<br>告知原因,但全年級卻有課<br>程,令人有些困惑                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 第一個單元-練習筆畫,                               |                                                                       | 狀況:2<br>發現國文的內容還在建置中,數學卻已經有較完整的<br>課程   | 狀況:3<br>發現右側的功能欄中,Q問題<br>無法順利啟用功能,不知是否<br>為老師上線才會啟用,但也沒<br>有出現任何說明                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| 頁面    | 教學媒體-操作說明                               | 教學媒體-練習題說明                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 練習題-測驗結果                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 動態測驗                                                                                                                                      |
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| 碰的況問  | 狀況:2<br>認為資訊有點雜亂,難以閱讀,<br>但還是有提供完整功能說明  | 狀況:2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 狀況:1<br>此題型若答錯會直接<br>跳出提示,讓人能更順<br>利完成練習                                                                                                  |
| 碰到 的狀 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 狀況:2<br>測試結束後會顯示得到的代                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 狀況:1<br>不太確定動態測驗與                                                                                                                         |
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| 碰到 | 狀況:1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 狀況:1         | 狀況:2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 狀況:1                                  | 狀況:2                                     |
| 的狀 | 選擇「〇〇〇帳號登                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 因為使用情境下的身分是  | 發現需要學校的 email 網址,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 選擇「一般會員」的類別                           | 發現要使用第三方軟體註                              |
| 況或 | 入」準備進行登入                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 學生,所以選擇「老師/學 | 但我沒有                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 冊,但我想用學校給的帳號                             |
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| 碰的況問題 | 狀況:1<br>回到知識結構重新整<br>理與查詢,查看有沒有<br>節點變色                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 狀況:3<br>想說會不會是要把一大欄<br>都做完才算是完成章節、才<br>會有資料,因此進入只有一<br>小節的欄位 | 狀況:1<br>進到教學媒體                       | 狀況:1<br>做此章節練習題                        | 狀況:1<br>得到測驗結果                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| 碰到       | 狀況:1                                                     |  |  |
| 的狀       | 回到知識結構重新整                                                |  |  |
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| 碰的沉問到狀或題 | 狀況:3<br>放棄使用知識結構功能,搞不懂他的編號與<br>學習重點裡的章節的<br>關聯性          |  |  |

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| 碰的況問     | 狀況:1<br>搜出來的結果點進去看還<br>是數學的課程。            | 狀況:1<br>回到知識結構頁面。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 狀況:1<br>不知道為什麼科目沒有歷<br>史,於是選了自然試試看,<br>成功找到。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| 碰的 況 問題  |                                           | 狀況:1<br>頁面往上滑後發現排版與<br>示範影片不同,在上方,推<br>測可能是瀏覽器問題。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |

測試者5:

| 頁面<br>名稱 | 〇〇〇〇〇〇登入頁                                                       | 身分類別登入頁                                           | 帳號密碼登入頁                                                                                 | 登入成功提醒                                 | 〇〇〇首頁                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| 畫面       | → 対対部にお連絡を示:行政国家の上を言・其理性・和を向け扱う式・保証を行以が仕多元<br>方式高度・直向は高度で、<br>・ | ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●             | 国材類を経過入  四月の 学生・記述・学伝で書  ・ 原理 集中の ・ 原学は まやの ・ 原学は ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ | 本                                      | AND INVESTIGATION OF THE PROPERTY OF THE PROPE |
| 碰的況問     | 狀況:1<br>帳號登入頁清楚。                                                | 狀況:2<br>教師/學生使用雲端帳號跟<br>縣市帳號登入跟因才網帳<br>號的登入會猶豫按錯。 | 狀況:1<br>填寫簡單清楚。                                                                         | 狀況:1<br>綁定帳號提醒跳出,按確認後<br>才能繼續使用,具提醒效果。 | 狀況:1<br>課程學習在上列,知識結構<br>位於子列,稍微找一下可以<br>發現。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 碰的 況 問題  |                                                                 | 狀況:2<br>因才網圖示位置改變                                 |                                                                                         |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| 頁面     | 知識結構架構頁                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 知識結構星空圖操作說明                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 影片連結                     | 六年級英文科練習畫面                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 畫面     | TO THE PARTY OF TH | THE TOTAL ASSOCIATION OF THE PROPERTY OF THE P | 功能介紹<br>知識結構-星空圖<br>基本操作 | TO THE PARTY OF TH | Example 1                                       |
| 碰的況問   | 狀況:2<br>圖上的點狀無法直接<br>開啟,看不懂點的意<br>義。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                       | 照影片可大致理解操作方              | 狀況:2<br>子技能小節點旁的課程內容<br>字太小,看不太清楚。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 狀況:1<br>版面配置清楚<br>。                             |
| 碰的況問問題 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                                 | 狀況:1<br>教學影片速率過慢,經查因<br>當時我的網路不穩,不是影<br>片本身的問題。 |

| 頁面<br>名稱 | 練習題                        | 完成跳出提示             | 測驗結果                 | 查看詳解                                                                                                                              |
|----------|----------------------------|--------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 畫面       | MREA(B)                    | 別的成化               | 別的 AC 10             | 類目1  Q 場底接項目列列・項点系等の事業組入立即項。 I like to eat There are bread, lettors, and boerf.  A g(1) housburgers  J 正確言策  (2) salad  (4) pizza |
| 碰的況問題    | 狀況:1<br>題目清楚易讀,作答點<br>選易懂。 | 狀況:2<br>不明白代幣要做什麼? | 狀況:1<br>頁面詳細,有助學習評估。 | 狀況:1<br>可詳看題目跟解答,有助學習<br>累積。                                                                                                      |

### 設計專家:



