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**錯誤筆記**

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摘要

回憶起從前的求學階段，我們總是在考試時一錯再錯，我們往往會拿出筆記本，本子裡的左頁抄考試時所做錯的題目，右頁抄該題目的正確答案。本專題所開發的跨平台APP結合了科技與教育，欲顛覆傳統人們的既定思維模式，達到與傳統錯誤筆記本的相同效果。此APP利用智慧型手機的拍攝功能，將考試的紙本題目存入系統，節省了手抄題目的時間，也避免紙張的使用與浪費。圖片編輯功能可遮住試卷上的答案，配合錯題管理功能，可依範圍重複練習，提升學習的效率。

**關鍵字：**筆記本、跨平台APP、手機拍照功能、編輯圖片

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ABSTRACT

In remembrance of the study experience in the past which tests went on and on, we frequently gave wrong answers to certain questions because we do not have enough time for reviewing. Mostly, we would write questions on the left side pages of notebooks with the correct answers on them of the other side, and those are called “The Correction Notebooks”. However, we would like to challenge people’s cognition of notebook by a cross-platform application we developed in this phone-on-hand era. This application is a seminar course project and is designed with educational and technological characteristics and aims to achieve the same effects of the correction notebook and reduce the usage and waste of paper simultaneously. With the built-in camera of smartphones, test paper can be snapped and stored, and users are able to cover the correct answers and practice for several times to surge the studying efficiency with the in-app image editor.

**Keyword:** Notebooks, Cross-Platform APP, Snap, Image Editor

目 錄

中文[摘要 I](#_Toc8484156)

[ABSTRACT II](#_Toc8484157)

[目 錄 III](#_Toc8484158)

[表 目 錄 V](#_Toc8484159)

[圖 目 錄 VI](#_Toc8484160)

[第 1 章 研究動機與目的 1](#_Toc8484161)

[1.1 研究動機 1](#_Toc8484162)

[1.2 研究目的 1](#_Toc8484163)

[第 2 章 文獻探討 3](#_Toc8484164)

[2.1 現有主流行動裝置平台作業系統 3](#_Toc8484165)

.[2.1.1 Android 3](#_Toc8484166)

.[2.1.2 iOS 4](#_Toc8484167)

[2.2 現今APP開發方式 4](#_Toc8484168)

.[2.2.1 原生開發（Native APP） 4](#_Toc8484169)

.[2.2.2 網頁開發（Web APP） 5](#_Toc8484170)

.[2.2.3 混合開發（Hybrid APP） 5](#_Toc8484171)

[2.3 市面上相近軟體 7](#_Toc8484172)

.[2.3.1 Evernote 7](#_Toc8484173)

.[2.3.2 OneNote 8](#_Toc8484174)

[第 3 章 研究內容、方法與工作項目 9](#_Toc8484175)

[3.1 前端技術 9](#_Toc8484176)

.[3.1.1 HbuilderX IDE 9](#_Toc8484177)

.[3.1.2 Html5+ API 10](#_Toc8484178)

.[3.1.3圖片編輯 12](#_Toc8484179)

.[3.1.4 文字筆記編輯 14](#_Toc8484180)

.[3.1.5 框架 15](#_Toc8484181)

[3.2 後端技術 16](#_Toc8484182)

.[3.2.1 Google Cloud Platform 16](#_Toc8484183)

.[3.2.2 Node.js 17](#_Toc8484184)

.[3.2.3 資料庫 17](#_Toc8484185)

[3.3 系統功能與架構 19](#_Toc8484186)

.[3.3.1 系統功能 19](#_Toc8484187)

.[3.3.2 系統架構與流程 20](#_Toc8484188)

[第 4 章 人力配置 22](#_Toc8484189)

[第 5 章 預期成果 23](#_Toc8484190)

[5.1 跨平台且符合使用者習慣 23](#_Toc8484191)

[5.2 階段性測試軟體 25](#_Toc8484192)

[第 6 章 執行進度 26](#_Toc8484193)

[參考文獻 27](#_Toc8484194)

表 目 錄

[表2.1 開發方式比較表 6](#_Toc8421225)

[表4.1 參與本研究工作人員與工作內容 22](#_Toc8421226)

[表6.1 執行進度甘特圖 26](#_Toc8421227)

圖 目 錄

[圖2.1 Android系統架構圖 3](#_Toc8422221)

[圖2.2 iOS系統架構圖 4](#_Toc8422222)

[圖2.3 Evernote介面圖 7](#_Toc8422223)

[圖2.4 OneNote介面圖 8](#_Toc8422224)

[圖3.1 HbuilderX介面圖 9](#_Toc8422225)

[圖3.2 HTML5+ 架構圖 10](#_Toc8422226)

[圖3.3 相機API 11](#_Toc8422227)

[圖3.4 I/O API 12](#_Toc8422228)

[圖3.5 圖片編輯API 12](#_Toc8422229)

[圖3.6 Onsen UI的各種設計 15](#_Toc8422230)

[圖3.7 Onsen UI的必要套件引入連結 16](#_Toc8422231)

[圖3.8 Google Cloud Platform 介面圖 17](#_Toc8422232)

[圖3.9 ER Model 18](#_Toc8422233)

[圖3.10 系統功能圖 20](#_Toc8422234)

[圖3.11 系統架構圖 21](#_Toc8422235)

[圖3.12 系統流程圖 21](#_Toc8422236)

[圖5.1 iOS介面圖 24](#_Toc8422237)

[圖5.2 Android介面圖 24](#_Toc8422238)

第1章 研究動機與目的

1.1 研究動機

求學至今，我們也曾經面臨過許多大大小小的考試與測驗，也因而準備了一本本不同科目或章節的「錯誤筆記本」，但我們想打破這樣的思維模式，透過我們的專長與經驗，打造出一款前所未有的跨平台APP，可以達到與傳統錯誤筆記本相同的效果，甚至帶給使用者們更好的體驗，讓使用者從筆尖上的思考轉變為指尖下的思考，一直是我們對於本研究的動機與初心。

1.2 研究目的

本專題的研究目的是開發一個能夠達到跨平台以及撰寫「錯誤筆記」的APP。基於我們研究的動機，我們將本研究的未來規劃出3大階段，以達成我們的目標：

**1.2.1 達成真正的跨平台**

時下手機品牌與型號多樣，但以iOS與Android兩大陣營最為大宗，一款APP相容各平台更是必須的，因此，我們將以Hybrid的方式製作，既可以如同Web APP開發快速，亦可以如同Native APP調用手機內建功能，倘若有機會也希望製作網頁版，透過雲端資料庫同步使用者的資料，讓使用者在各個平台上無縫接軌，達成真正的跨平台。

**1.2.2 進行軟體測試**

正如上述我們提及，我們欲達成真正的跨平台，而時下手機品牌、型號、尺寸多樣，因此我們將軟體測試納入我們重要的里程碑，唯有透過不斷的測試，並多方收集使用者的體驗想法與建議，從每一次的測試中優化我們的程式，以適應各種手機，提升使用者體驗，進而增加使用者黏著度。

**1.2.3 準備上架**

當進行完多次的測試與優化後，我們以推出正式完整版本的APP為最終目標，符合使用者的想法與期待，我們也做好隨時上架的準備，而非零零散散或是不完整的研究。

第2章 文獻探討

基於第1章所述之研究動機與目的，我們已對於目前現有跨平台之技術進行研究與探討，分析出未來我們將會面臨的優缺點。

2.1 現有主流行動裝置平台作業系統

2.1.1 Android

Android [1]是一個基於Linux開放原始碼的作業系統，由Google的開放手機聯盟(Open Handset Alliance，縮寫OHA)開發。如圖2.1，系統架構主要分成五層，由低至高：Linux核心層(Linux Kernel)、硬體抽象層(HAL)、系統執行庫層(Native C/C++ Libraries、Android Runtime)、應用框架層(Java API Framework)、應用層(System APPs)，開發者通常以Java進行編寫，而Android toolchain可以將Java程式碼編譯為.dex格式的可執行檔案方能執行。

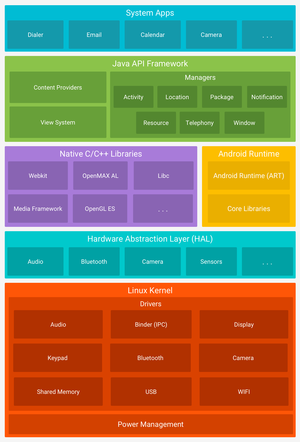


圖2.1 Android系統架構圖

2.1.2 iOS

iOS的核心是Darwin [2]的XNU，由APPle為其行動裝置所開發的作業系統，從最初給iPhone使用，到如今iPad、iPod touch等產品皆可使用。如圖2.2 [3]，iOS系統架構分成四層：核心作業系統層(Core OS)、核心服務層(Core Services)、媒體層(Media)、框架層(Cocoa touch)，開發者可以使用Objective-c或是Swift兩種語言進行編寫，而主要開發工具需使用Xcode，此開發工具僅支援MacOS作業系統，無法在Windows作業系統進行開發，相較於Android較為封閉。

一張含有 螢幕擷取畫面 的圖片

自動產生的描述

圖2.2 iOS系統架構圖

2.2 現今APP開發方式

2.2.1 原生開發（Native APP）

作業系統廠商所提供的 SD軟體發展工具包（Software Development Kit, SDK）或建議的開發方式。如Android平台由Google所提供的Android SDK，建議使用Andoird Studio的整合開發環境以Java進行開發；iOS平台由APPle所提供的iOS SDK，建議使用Xcode的整合開發環境，以Objective-c或Swift開發。

原生開發的執行速度與效能較佳，對硬體的支援度也較好。適合需要使用硬體功能的應用，例如：相機拍照功能、GPS、陀螺儀 … 等。亦或是需要快速反應的應用、複雜動畫與遊戲。

原生開發的缺點則是在不同裝置平台上必須使用指定的SDK及程式語言開發。倘若APP 要用原生開發，且希望在iOS、Android各平台上都能夠使用，則需要開發 2 套不同程式語言的 APP 。

2.2.2 網頁開發（Web APP）

相對於原生開發，Web APP執行速度與效能並沒有原生開發來的快，對硬體的支援度也相較不好，許多硬體上的功能可能也無法使用。

Web APP需要使用瀏覽器才能夠執行，而現今瀏覽器種類甚多，對網頁技術的支援也有限，雖然大部分都能夠執行，但 UI 介面較不易達到一致，且部份功能需要針對不同的瀏覽器進行不同的處理。

開發時，Web APP只要在瀏覽器輸入網址即可執行進行測試。若程式修改後，可以將網頁重新整理，快速的進行測試，整個開發過程較為快速，也不再需要針對不同平台撰寫不同的程式語言。

2.2.3 混合開發（Hybrid APP）

混合開發（Hybrid APP）是以Web APP的方式開發用戶端程式，最後可以向原生開發一樣打包成可執行檔案Andoird為.apk，iOS為.ipa。

Hybrid APP最大的優點就是採用網頁技術開發，撰寫一種程式語言並且透過像是Cordova [4]或是HTML5+幫我們打包編譯成Android或iOS的執行程式，如表2.1 [5]，綜合上述之優缺點以及我們的研究目的，本研究的APP為了實現跨平台以及開發快速的目的因而選擇採用此混合開發（Hybrid APP）的方法。

表2.1開發方式比較表

|  |  |  |  |
| --- | --- | --- | --- |
|  | Web APP | Hybrid APP | Native APP |
| 開發成本 | **低** | **中** | **高** |
| 維護更新 | **簡單** | **簡單** | **複雜** |
| 使用者體驗 | **差** | **中** | **優** |
| Google Play or App store認可 | **不認可** | **認可** | **認可** |
| 安裝 | **不需要** | **需要** | **需要** |
| 跨平台能力 | **優** | **優** | **差** |

2.3 市面上相近軟體

2.3.1 Evernote

Evernote [6]是一款強大的筆記軟體，如圖2.3為Evernote介面，介面簡單易操作，亦有人稱為「懶人筆記本」，可以文字或語音記事、擺放圖片、擷取部分或完整網頁，其中跨平台更是Evernote的一大特色，支援iOS、Android行動裝置，另外，包括MacOS與Windows電腦作業系統皆有支援，甚至還推出了網頁版，然而在使用Windows桌機版的Evernote，讓我們認為同步的功能仍有待改進，但現階段市面上很少有支援度如此廣泛的筆記軟體；不過，Evernote對於提供給免費入門版的用戶較少的功能，較難滿足一般用戶日常所需，然而付費專業版又較為昂貴，每月需支付新台幣150元。

一張含有 螢幕擷取畫面 的圖片

自動產生的描述

圖2.3 Evernote介面圖

2.3.2 OneNote

OneNote [7]是一款由Microsoft開發的筆記軟體，如圖2.4為OneNote的介面，相較於Evernote介面較為複雜，但許多操作介面與方式卻是使用者最為熟悉的，因為與同樣是Microsoft開發的Word、PowerPoint、Excel皆是許多人日常使用的軟體，且OneNote免費給予使用者所有功能，也與Evernote相同，有廣泛的跨平台性，可是同步的功能與同步後於各平台呈現的格式也都是有待改進。

**一張含有 螢幕擷取畫面 的圖片

自動產生的描述**

圖2.4 OneNote介面圖

第3章 研究內容、方法與工作項目

如同前一章所探討之文獻，對於本研究分析出該從何開始製作以及了解市面上諸多相似軟體的優劣，使得本研究有所修正與改進，本章將更詳細說明本研究前端、後端、資料庫等相關技術，並整理出本研究的系統架構與功能架構之概念。

3.1 前端技術

3.1.1 HbuilderX IDE

一張含有 螢幕擷取畫面 的圖片

自動產生的描述HbuilderX如圖3.1，是中國DCloud [8]公司所開發的一款強大的輕量級程式編輯器，但同時也具有強大的整合開發能力，其中我們所用到HTML5+ API和將整個Mobile Web打包成一個執行檔案的功能，皆是透過此HbuilderX IDE所提供的功能達成的。

圖3.1 HbuilderX介面圖

3.1.2 Html5+ API

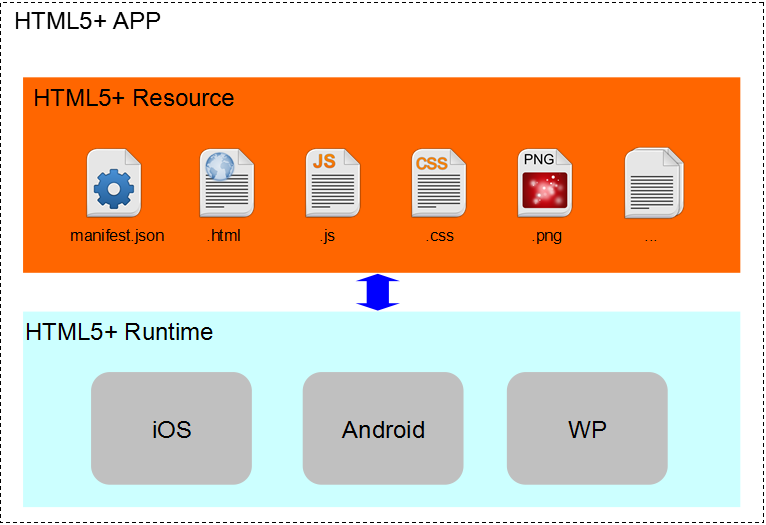
HTML5 Plus移動APP，簡稱5+APP，如圖3.2 [9]，是一種基於HTML、Javascript、CSS撰寫的運行於手機端的APP，這種APP可以通過封裝過的Javascripte API任意調動手機的硬體功能，實現與原生APP同樣強大的功能和性能。本研究因需要調用手機內建的相機鏡頭與存儲空間這兩種硬體功能，HTML5+ 封裝過的Javascript API皆可以幫助我們達到，讓我們在開發時只需要使用HTML5、Javascript、CSS技術就可以快速開發跨平台的APP。

圖3.2 HTML5+ 架構圖

(1) 相機API

相機API管理手機的鏡頭，可用於拍照、錄影操作，我們可以透過plus.camera.getCamera(index) 函式啟動手機內的相機，參數index則是表示後置或是前置鏡頭，如果不輸入參數則是預設為後置鏡頭。

如圖3.3，captureImage函式有三個參數，當使用者按下拍照按鍵後，拍照成功則會執行successCB，successCB的內容是一個函式，函式參數path代表圖片存儲在手機內的路徑位置；反之如果拍照失敗則是執行errorCB，errorCB也是一個函式，其中我們可以透過error.code和error.message方法返回的字串訊息來判斷錯誤代碼和錯誤訊息；第三個參數options則是一個json物件，其中resolution代表的是拍照錄影時所用的解析度，format代表則是拍照後的存檔格式，如果不指定則預設為.jpg檔案。

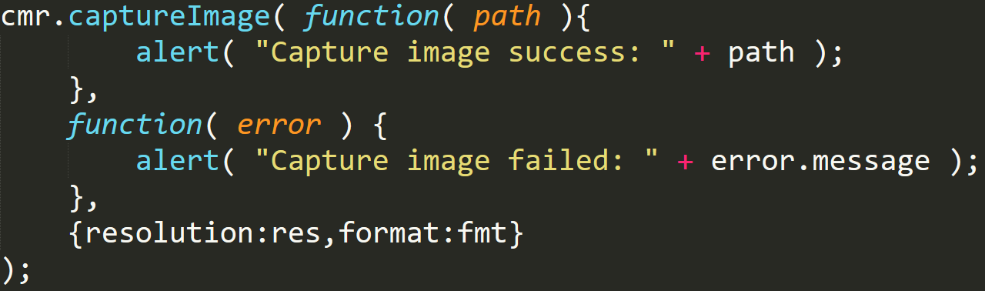


圖3.3 相機API

(2) I/O API

如圖3.4， plus.io.resolveLocalFileSystemURL(url,succesCB, errorCB )可以獲得指定路徑或文件的物件，url代表要操作文件或目錄的位址，而succesCB則是操作url路徑的的文件或目錄後成功會執行的函式，執行成功則執行函式內容，函式的entry物件就是代表url目錄底下的每個照片。

在createItem這個函式將entry傳入，之後便可以在createItem函式內透過Javascript操作DOM執行自己要的動作，比方像是建立一個相片列表，而entry物件提供像是entry. name方法可以讓我們得到這個相片的檔名。

以此類推我們可以用類似的方法操控硬體資源然後配合Javascript來做到資料和前端的頁面整合，進而完成本研究。



圖3.4 I/O API

3.1.3圖片編輯

以便利使用者於建立筆記時，能夠更輕鬆有利的完成圖示說明所製，頁面開發所使用的基礎語言為html5為頁面基底，並使用了JavaScript作為各功能撰寫的語言，其中主要使用的以Cropper.js [10]作為開發使用的API，以及我們編寫於JavaScript檔中的各項函式互相配合，最終達成我們想完成的功能頁面。

(1) API

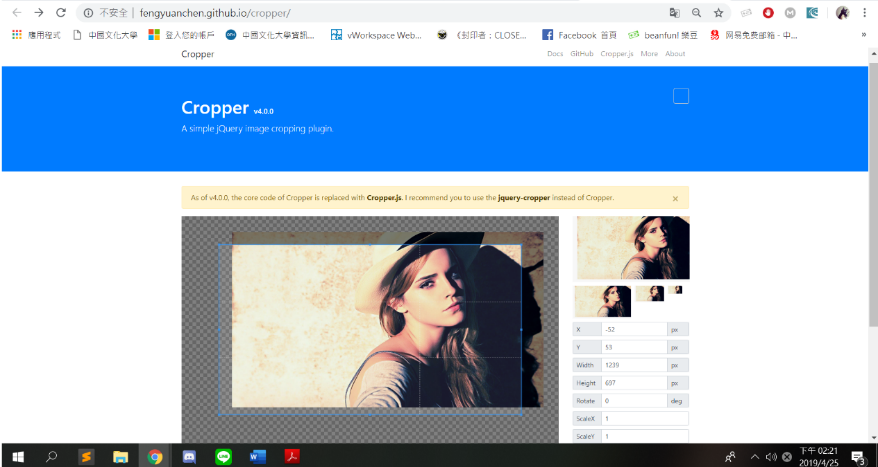
如圖3.5，是一款使用簡單且功能強大的圖片剪裁jQuery外掛程式。 該圖片剪裁外掛程式支援圖片放大縮小，支援圖片旋轉，支援觸控式螢幕設備，支援canvas，並且支援跨瀏覽器使用。

圖3.5 圖片編輯API

(2) 功能

我們目前於圖片編輯上，有5個基礎功能方便使用者對於筆記圖片進行調整，分別為旋轉(垂直)、裁切、畫筆、保存、存檔等功能。

1) 旋轉

採用Cropper API的旋轉功能來達成旋轉的目的，也就是將使用者需要編輯的圖片放至畫布上，進行角度為180的畫面轉動覆蓋。

2) 裁切

採用Cropper API的裁切功能來達成剪裁的目的，也就是將使用者需要編輯的圖片放至畫布上，在讓使用者依據需求調整裁切框，將想要的部分留下來。

3) 畫筆

使用JavaScript的語法判斷使用者的觸碰的軌跡座標，並在html Canvas以顏色進行覆蓋標記等。

4) 保存

這項功能為在使用者的畫面上會將修改好的圖片直接重繪於畫布，確定使用者對圖片的修改。

5) 存檔

這項功能為在使用者的資料中存檔(可能為本地或線上)，在背景作業中則將修改好的檔案存放於本地的資料夾中。

3.1.4 文字筆記編輯

使用者於建立筆記時，除了筆記本身的錯誤畫面截圖外，還需要一些文字敘述以及標籤等補充敘述或是重點提醒，本功能的作用就在於為使用者自身建立文字的筆記內容，以及建立或標註標籤讓筆記分類建立關聯，以方便在搜尋時能夠更加快速地去找到筆記，又或者使用者在筆記上，可能經常出現同一類型的錯誤，這時候標籤的功能就能快速的幫他們統整出同一類型的筆記，以利觀看學習。

目前功能有基礎4個部分，為筆記的基本屬性，可藉由其中幾項去進行搜尋，分別為標題、標籤、圖片、內文敘述。

(1) 旋轉

為筆記建立一個概要性的標題，以便搜尋時可用關鍵字找出筆記，也可區分出各筆記間的不同。

(2) 標籤

在筆記上標示標籤，目的在於進行分類，以及方便找查，筆記可選用預設已經建立好的，也可以讓使用者建立出一個屬於他的筆記範圍標籤，構想為當使用者建立標籤後，將標籤存入資料庫，當該使用者或其他使用者下一次建立筆記時，會將標籤從資料庫中先行抓出，判斷該標籤是否已經建立過。

(3) 圖片

將編輯完成的圖片建立一個縮圖於此頁面，方便使用者判斷使用的圖片是否有誤，其中要進入到圖片編輯功能前須點擊畫面中的縮圖，才會將畫面轉跳至圖片編輯的功能。

(4) 內文敘述

建立一個區域讓使用者輸入與筆記相關的文字內容，以便使用者查看筆記時能更加快速理解筆記的重點。

3.1.5 框架

Framwork就像一家服飾店一樣，人們可以自由的選擇各個配件來裝飾自己，就像是商品需要包裝才有比較多人想要購買一樣，所以Framwork的功能就是修飾製作出來的程式介面，使得它看起來更美觀好用，而有名的 Framwork 像是網頁常常使用的Boostrap，而在手機像是jQuery Mobile也是其中一種，而我們本研究所使用的則是Onsen這款Framwork。

(1) Onsen

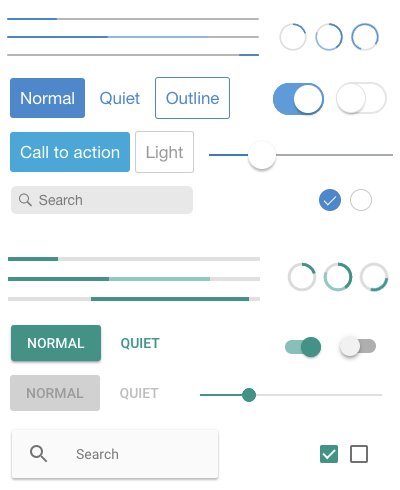
是一款適合使用在手機版網頁以及mobile web上的UI Framework。它可以依據使用的手機系統平台(IOS、Android)來調整顯示的風格，如圖3.1，不會有使用IOS系統但介面卻像Android的問題，另外，它它預設支援了目前主流的前端框架(Angular 1、Angular 2、React、Vuew.js、Meteor)，更利於開發上手。

圖3.6 Onsen UI的各種設計

(2) 使用方法

先載入必要的onsenui.css、onsen-css-components.css和onsenui.js，如圖3.2，接著便可以使用相關的語言進行畫面的設計，我們使用JavaScript的開發，可以進去OnsenUI的官網找到相關API的各部分語法。



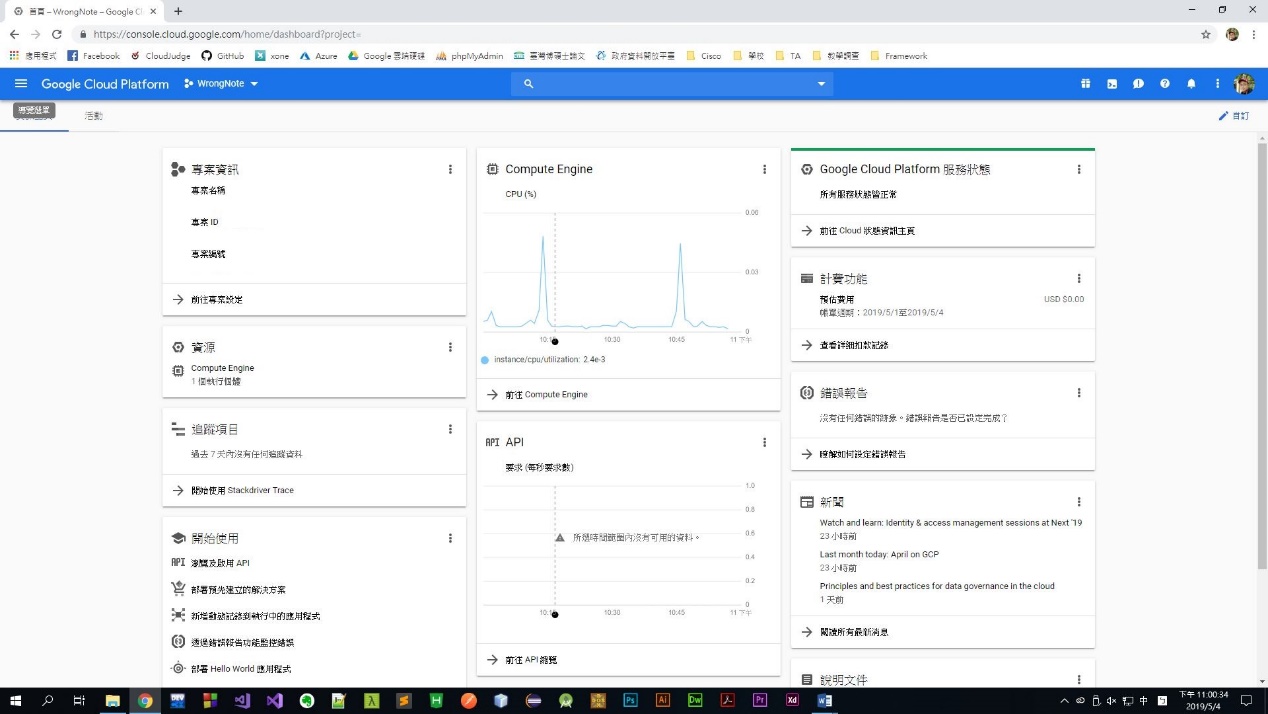
圖3.7 Onsen UI的必要套件引入連結

3.2 後端技術

3.2.1 Google Cloud Platform

「Google Cloud Platform」 [11]是google提供的雲端服務，如圖3.6，他擁有強大的運算功能、龐大的儲存空間，資安部分由google把關，安全性高，不同於以往的伺服器必須添購機器，需要有人負責在現場維護機器，google在雲端上替你建立虛擬機，因此你只要在有網路的地方便能夠對機器進行維護，省下工程師不少時間，讓工程師能夠專心在應用程式的開發上，它的收費方式是以每秒計費，你用多少就用收多少。

我們所使用的是其中Compute Engine的服務，它屬於三種雲端服務模式的基礎架構即服務(laas) [12]，它能夠創立虛擬機器(virtual machine)，google提供不同的主機規格，依CPU個數和記憶體大小作為區分，也可以做客製化機器，但是價格會比較昂貴，這裡我們使用google提供的小型主機( 1個共用vCPU，1.7GB記憶體)。

圖3.8 Google Cloud Platform 介面圖

3.2.2 Node.js

Node.js [13]是能夠在伺服器端運行JavaScript的開放原始碼，在Node.js出現之前，JavaScrip通常作為前端程式設計語言，Node.js出現之後使JavaScript也能用於伺服器端的編程，它主要用於編寫向Web伺服器的網路應用，和PHP與Python類似，Node.js與其他語言最大的不同之處在於它是非阻塞式(多條命令可以同時執行)，而像PHP等語言則是阻塞式(一條一條命令執行)。

3.2.3 資料庫

(1) MySql

資料庫(database)就是依數據結構進行組織、儲存以及管理資料的倉庫。Mysql [14]是關聯式資料庫，由瑞典 MySQL AB 公司開發，目前屬Oracle公司，Mysql將資料有序性的保存在不同的表中，而不是無理頭的堆積在空間中，這樣便能增加APP速度和靈活性。Mysql由於效能高、成本低、可靠性好，已經成為最流行的開源資料庫，因此被廣泛地應用在[Internet](https://zh.wikipedia.org/wiki/Internet)上的中小型[網站](https://zh.wikipedia.org/wiki/%E7%B6%B2%E7%AB%99)中，甚至用於更多大規模[網站](https://zh.wikipedia.org/wiki/%E7%BD%91%E7%AB%99)和應用。

(2) SQLite

SQLite [15]是關聯式資料庫，它不同於以往的資料庫是一個用戶端連接伺服器的架構，而是被整合在用戶的程式中。應用程式藉由程式語言中的API呼叫SQLite的功能，這樣可以減少資料庫存取延遲，SQLite將整個資料庫，包括定義、表、索引以及資料本身，作為一個單獨的、可跨平台使用的檔案儲存在主機中。它採用了在寫入資料時將整個資料庫檔案加鎖的簡單設計。實現了自給自足的、無伺服器的、零配置的、事務性的 SQL 資料庫引擎。因此我們便能利用SQLite的特性做出離線版的錯誤筆記，讓使用者就算在沒有網路的情況下也能使用APP。

(3) ER Model

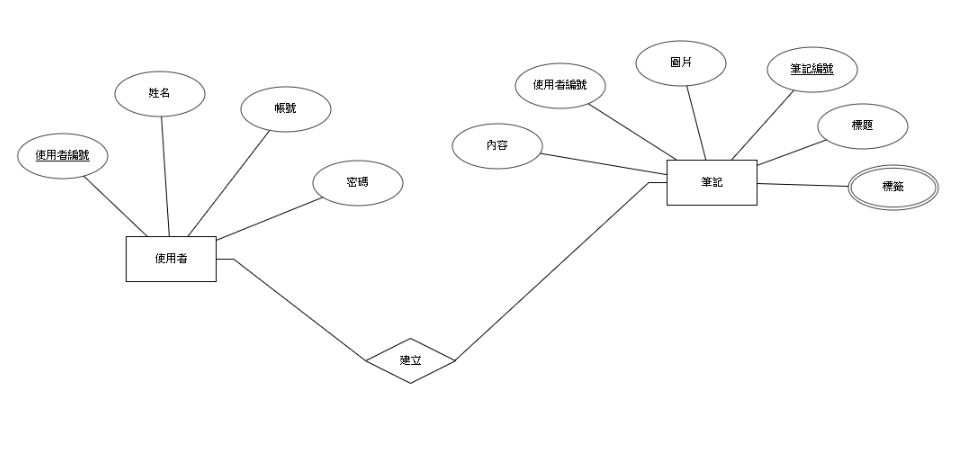
如圖3.7，這裡我們設立了一個表格存入使用者的姓名、帳號和密碼，每位使用者都會給予他一個「使用者編號」作為主鍵。另外一格表格能夠記錄筆記標題、內容和圖片，還能賦予筆記標籤，「標籤」欄位有多值屬性，例如：翰林數學高一下第二課，他的標籤便為「翰林」、「數學」、「高一下」、「第二課」，每一則筆記也會給予「編號」作為主鍵使用，外來鍵則是「使用者編號」。

圖3.9 ER Model

3.3 系統功能與架構

3.3.1 系統功能

系統功能目前我們大致分為四個方面：筆記編輯、圖片編輯、匯入、匯出，如圖3.8。

(1) 筆記編輯

筆記編輯中將再細分為三項：分科目章節、文字編輯、區分題目與答案，以達到我們錯誤筆記本的理念與目標。

(2) 圖片編輯

圖片編輯中將再細分為兩項：擷取題目、遮住答案，因為我們錯誤筆記本最重要就是能夠透過圖片的編輯將題目與答案分離，方便使用者重複練習，提升學習效果。

(3) 匯入

其中再細分為三項：開鏡頭拍攝題目、選擇原有照片進行圖片處理、擷取網頁，使用者可以透過開啟手機內建鏡頭拍攝題目或使用原有已拍攝的照片皆可進行圖片的編輯，甚至從網路上找到相關解答後擷取網頁內容製作筆記。

(4) 匯出

其中再細分為五項：匯成PDF、存入Google Drive、用Email寄出、共同編輯、列印，將編輯完成的筆記用時下使用者最常用的方式進行存取。

![一張含有 文字 的圖片

自動產生的描述](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHNhbXVlbAAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzI5AACSkgACAAAAAzI5AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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2OY8/KcZ71o1DTTszRNNXQUUUUhhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGB411+88NeGpNR06y+2zLIiiPBIAJwScc15t/wuXxN/0LMf8A3xLXtFFb06lOKtKFznqUqk5XjO3yPF/+Fy+Jv+hZj/74lo/4XL4m/wChZj/74lr2iitPbUv+ff4mXsK3/Pz8Dxf/AIXL4m/6FmP/AL4lo/4XL4m/6FmP/viWvaKKPbUv+ff4h7Ct/wA/PwPF/wDhcvib/oWY/wDviWs6z+It5p+mT6bYeAtNtbG43edaw2ZSKXcu1tyAYOQADkcjiveaKPb0v+ff4h7Ct/z8/A8TX4u+IFunuV8KW4nkRY3lEUm5lUsVUnqQCzEDtuPqais/irrOn+f9g8HWlr9omaebybd082VvvO2ByxwMk8mvcaKPb0v+ff4h7Ct/z8/A8Gf4i3kkKRSeAtNeNIVgVGsyQsSo6BAMcKFlkUDph2HRjRL8Rbyf7B5/gLTZP7Nx9h32ZP2XGMeXkfJjav3cfdHpXvNFP29L/n3+IfV63/Pz8EeFaX8TdT0S1a20XwRYadAzmRorS1aJSxAG4hQBnAAz7Ciy+Jup6bdXVzp3giwtJ7x/MuZYLVkadsk7nIGWOWY5PqfWvdaKPb0v+ff4h9Xrf8/PwR4v/wALl8Tf9CzH/wB8S0f8Ll8Tf9CzH/3xLXtFFL21L/n3+Iewrf8APz8Dxf8A4XL4m/6FmP8A74lo/wCFy+Jv+hZj/wC+Ja9ooo9tS/59/iHsK3/Pz8Dxf/hcvib/AKFmP/viWj/hcvib/oWY/wDviWvaKKPbUv8An3+Iewrf8/PwOS0nxfrF/pFrdS+EdR3zRhj5ckIU57jdIGx9RVz+39df/V+Eb0D1kvLdf5Oa6GisHON/hX4/5nQoStrJ/h/kc7/aXiqf5YPDtnb5/jutRzj8EQ/zpDpXiTUeNU1uGxhP3otLgKsR/wBdXJI/ACujoo57bJf16j9nfdt/15FPS9Ks9GsVtNOhEUQJY8ks7HqzE8sx7k1cooqG23dlpJKyCiiikMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDnfDP7jWPEdk3WPUfPH+7LEjfz3V0Vc5IRpnxEidvlh1iz8r2M0JLD8Sjt/3xXR1pU3T7mdPZrswooorM0CiiigAIDAhhkHqDWfNoGj3BJuNJsZSepe2Rs/mK0KKabWwmk9zEbwX4Yc5bw9pf4WiD+lYup/Cbwnql59oNk1qdoXy7RhGnHfAHWu1oq1VqR1TZnKjTkrOKPPv+FK+Ev7t7/4Ef/Wo/wCFK+Ev7t7/AOBH/wBavQaKv6xW/mZH1aj/ACo8+/4Ur4S/u3v/AIEf/Wo/4Ur4S/u3v/gR/wDWr0Gij6xW/mYfVqP8qPPv+FK+Ev7t7/4Ef/Wo/wCFK+Ev7t7/AOBH/wBavQaKPrFb+Zh9Wo/yo8+/4Ur4S/u3v/gR/wDWo/4Ur4S/u3v/AIEf/Wr0Gij6xW/mYfVqP8qPPv8AhSvhL+7e/wDgR/8AWo/4Ur4S/u3v/gR/9avQaKPrFb+Zh9Wo/wAqPPv+FK+Ev7t7/wCBH/1qP+FK+Ev7t7/4Ef8A1q9Boo+sVv5mH1aj/Kjz7/hSvhL+7e/+BH/1qP8AhSvhL+7e/wDgR/8AWr0Gij6xW/mYfVqP8qMPwx4R0vwjaT2+kLKEncO5lk3EkDFblFFZSk5O7NoxUVaOwUUUVJQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAZXiPSpdW0nZaSLFe28i3NpIwyFlQ5GfY8qfZjT9C1mPW9MW4WNoJ0Yx3Nu/3oJRwyH6Hv3GDWlWFq2gTPqA1fQJo7PVAAsm8HyrpB/DKB6dmHI9xxWkWmuVmck0+ZG7RWBY+LLY3K2OuxHR9RPSC5cbJfeOTo4/I+oFb9TKLjuVGSlsFFFFSUFFFFABRRRQAUUUUAFFFFABXPX/xA8IaZNJDfeJ9JimimEEkRvELxuXCYZQcjBPJIwoBJwATXQ155qmmahe/E2Bh58d1L9nkafT9QkWK0s7eaRwLiIFRI0xYoucjDyYH7lmlaE7nb2ur2F9f3FlZ3Uc89sivKsZyEBeSP73TO+GRSM5BU5xWcvjjws1q90PEOm/ZEdYzdm6QQGRgxEYlzsL4UkoDuAwSACM874Ct5rXxj4ijuYZIXKGQLIpUlW1PU2VsHsVIIPcEGue8I6haxeHPAU8uu3d3bWrwtK93CkdtaBdLu96xzLGiuFwVbLuUKYYg5y7Cuen6Jr+k+I7F7zQtQgv7eOZ4GlgfcA6HBH8iD0IIIyCCdGuZ8AXEN34VkubSaOeCbVdSkiliYMrqb6chgRwQRzkV01J7jWwUUUUhhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAQ3dla6hbNb31vFcwv96OZAyn8DWEPCAsv+Rf1e/0pR92BHE0I/wCASA4HsCK6OiqU5R0RMoRlqzndvjG04D6Pqar0LCS2dh+G8Zo/t3X4f+PnwncMB1NrewyD8NxU/pXRUVXOuqRPI+kmc9/wlrL/AK7w5rsZ9Psiv/6Axo/4TO1H39K1xPrpU5/kproaKOaHYOWff8Dnv+E203vaauPrpVx/8RXM698ZdO0XUvsi6TfTfIG3SoYDz/suAfxr0eq1xptjeSeZd2VvO4GA0sSscemSKqEqSfvRv8yJxqte7K3yPLv+F96f/wBAO5/7/L/hR/wvvT/+gHc/9/l/wr0v+wtJ/wCgXZf+A6f4Uf2FpP8A0C7L/wAB0/wrX2mH/k/Ex9nif5/wPNP+F96f/wBAO5/7/L/hR/wvvT/+gHc/9/l/wr0v+wtJ/wCgXZf+A6f4Uf2FpP8A0C7L/wAB0/wo9ph/5PxD2eJ/n/A80/4X3p//AEA7n/v8v+FV7P42aNYef9l8P3KNcTNPM5uAzSO3csck4ACgdAqqowFAHqf9haT/ANAuy/8AAdP8KP7C0n/oF2X/AIDp/hR7TD/yfiHs8T/OvuPH4Pit4bhutTnPhy9uH1RBHdi7vmuFkjBciMLIWVU/eP8AIoC/MeKsn4yaAV05V8Myxppj77NIplRYT5bRDCgAYCOy46DPsK9X/sLSf+gXZf8AgOn+FH9haT/0C7L/AMB0/wAKftMP/I/vD2WJ/nX3Hmn/AAvvT/8AoB3P/f5f8KP+F96f/wBAO5/7/L/hXpf9haT/ANAuy/8AAdP8KP7C0n/oF2X/AIDp/hS9ph/5PxD2eJ/n/A80/wCF96f/ANAO5/7/AC/4Uf8AC+9P/wCgHc/9/l/wr0v+wtJ/6Bdl/wCA6f4Uf2FpP/QLsv8AwHT/AAo9ph/5PxD2eJ/n/A80/wCF96f/ANAO5/7/AC/4Uf8AC+9P/wCgHc/9/l/wr0v+wtJ/6Bdl/wCA6f4Uf2FpP/QLsv8AwHT/AAo9ph/5PxD2eJ/n/AyPBHja38a2NzcW1pJa/Z5BGyyMGzkZzkV01Q21pbWcZS0t4oEJyViQKCfXipq5puLleKsjqgpKKUndhRRRUlhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH/2Q==)圖3.10 系統功能圖

3.3.2 系統架構與流程

如圖3.9和圖3.10，使用者可以透過手中的行動裝置，不論是iOS或是Android系統，首次使用，可免費註冊成為本研究製作的APP會員，便可以自行撰寫筆記，在撰寫筆記的過程當中可以將筆記分門別類，如科目、章節、標籤…等方式，並依照使用者的喜好自行編輯文字與圖片，方可製作出屬於自己的錯誤筆記，製作完成後透過行動裝置內簡易的資料庫暫存筆記，待裝置連結網際網路後，筆記資料將傳送至後端伺服器且儲存至雲端資料庫，長期保存資料，讓使用者在跨平台的操作時可以輕鬆無縫接軌繼續撰寫與編輯。

一張含有 文字 的圖片

自動產生的描述圖3.11 系統架構圖

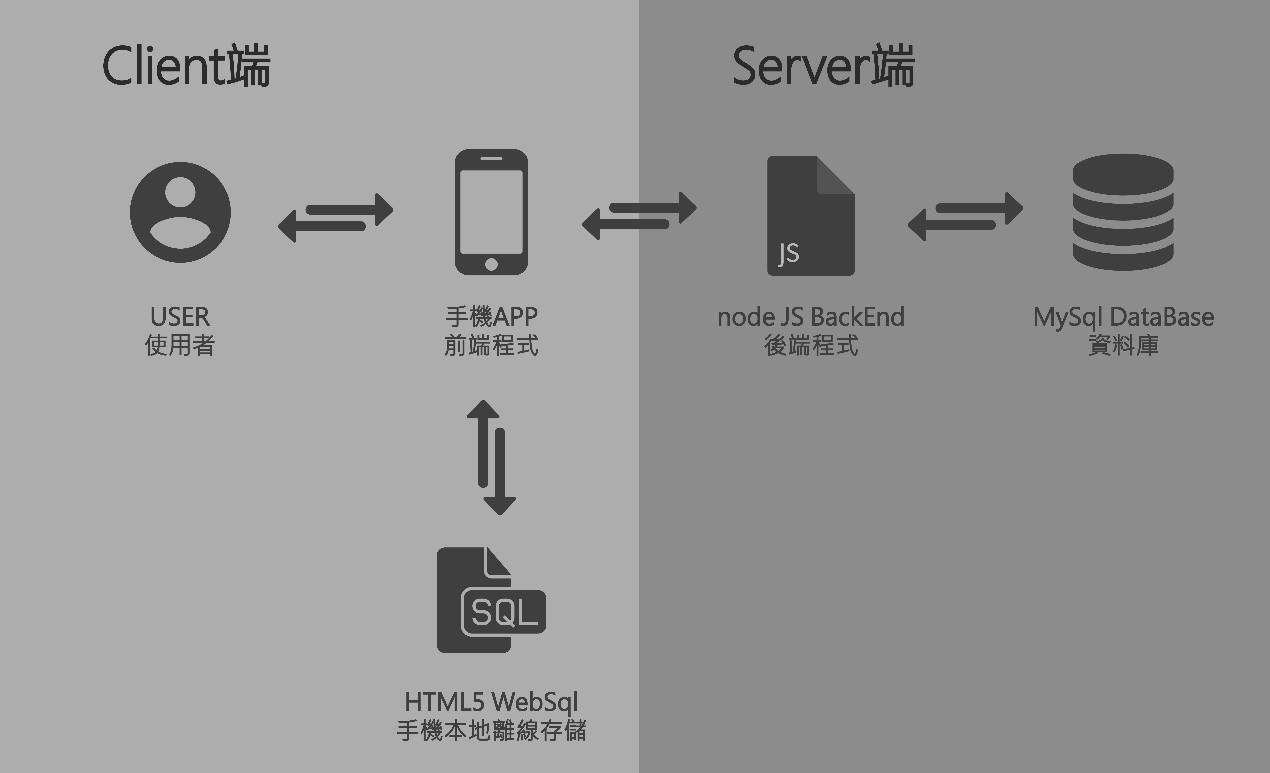


圖3.12 系統流程圖

第4章 人力配置

參與本研究之工作人員及規劃分工之工作內容如表4.1所示。

表4.1參與本研究工作人員與工作內容

|  |  |
| --- | --- |
| 姓名 | 工作內容 |
| 戚祐寧 | 進行前端與後端的整合、監督全組的工作分工與進度 |
| 陳嘉鴻 | 圖片編輯功能研究、軟體後續測試與維護 |
| 古瑞安 | 伺服器與資料庫研究、後端後續維護 |
| 黃祥銘 | 前端介面功能研究、設計系統規劃 |

根據表4.1，我們分成三大部分進行分工：前端、後端、圖片編輯功能，由於本專題研究需要處理大量的圖片編輯，因此，將該功能特別獨立進行研究；前端是每位使用者首要接觸的，而對於使用者的體驗相當重視的我們，故將前端也分出一個部分；後端包括伺服器與資料庫，好比一個APP重要的心臟與頭腦，更是本專題的核心，因而無庸置疑的形成一大部分。最後則是將上述三大部分進行整合與打包實機部署，進而完成一個相當完整的跨平台APP。

我們以筆記本的基礎概念之架構打造出一款前所未有的跨平台APP，透過分工合作與發揮各自所長將教育與科技以全新的面貌融合為一，將翻轉傳統的思維模式，並以這樣的精神與初心經營出屬於我們的一片天。

第5章 預期成果

基於前面幾章所述，我們透過參考相關文獻並進行分工研究，預期能夠共同開發出一個非常完整的跨平台APP，且計畫在製作的過程中進行階段性的測試，收集測試數據與資料，進而提升使用者的體驗，使本研究能夠規劃出一套完美的經營模式，方能達成我們想要隨時上架的理念與目標。

5.1 跨平台且符合使用者習慣

我們的目標即是跨平台，讓使用者無縫接軌的使用，但由於手機硬體設計上的不同，使得Android與iOS兩大系統的使用者各自有著不同樣的使用操作習慣，舉例來說：像大多數iPhone的設計都在最下方有個Home鍵實體按鈕，即使是時下較新款的iPhone取消Home鍵，但仍有類似的機制讓使用者回到主畫面，因此在螢幕的下方較無任何的阻礙，所以大多數的APP設計上時常將頁尾(footer)的選單列置於下方；可是Android的行動裝置，大多數都會在下方會有多個按鈕，所以在APP的設計上則會將頁尾(footer)的選單列置於上方位置。

既然要達到跨平台的特性且要使得使用者體驗提升，我們的設計便相當重要，如圖5.1與圖5.2，分別是我們目前對於兩大平台不同樣的設計，我們也將展現出使用Hybrid的方式，但UI的設計也能如同原生APP來得有彈性與適應各種手機，以抓住使用者的心。

**一張含有 螢幕擷取畫面 的圖片

自動產生的描述**

圖5.1 iOS介面圖

**一張含有 螢幕擷取畫面, 電子用品 的圖片

自動產生的描述**

圖5.2 Android介面圖

5.2 階段性測試軟體

當所有功能都就緒後，我們將會採取階段性的測試，測試對象先從身邊較熟悉的同學或師長們開始，並在每一次的測試中收集使用者的意見與建議，從每份寶貴的回覆中提升軟體的品質與體驗，更從中知道使用者的喜好，規劃出一套能夠上架的機制與使用者所想要的模式，使得本專題所開發出的跨平台APP擁有較高的完整度。

第6章 執行進度

有了方向與目標，為確實達成，因此我們製作表6.1規劃進度甘特圖，透過進度表以利督促組員執行進度。

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **時程**  **目標** | **2月** | **3月** | **4月** | **5月** | **6月** | **7月** | **8月** | **9月** | **10月** | **11月** |
| **選定題目** |  |  |  |  |  |  |  |  |  |  |
| **擬訂計畫** |  |  |  |  |  |  |  |  |  |  |
| **找尋文獻和參考資料** |  |  |  |  |  |  |  |  |  |  |
| **Framework**  **研究** |  |  |  |  |  |  |  |  |  |  |
| **後端與資料庫研究** |  |  |  |  |  |  |  |  |  |  |
| **圖片編輯研究** |  |  |  |  |  |  |  |  |  |  |
| **熟悉作業軟體與環境** |  |  |  |  |  |  |  |  |  |  |
| **完成報告** |  |  |  |  |  |  |  |  |  |  |
| **簡易製作與優化第一版本** |  |  |  |  |  |  |  |  |  |  |
| **製作第二版本** |  |  |  |  |  |  |  |  |  |  |
| **第一階段測試優化與修正** |  |  |  |  |  |  |  |  |  |  |
| **第二階段測試優化與修正** |  |  |  |  |  |  |  |  |  |  |
| **完成專題** |  |  |  |  |  |  |  |  |  |  |
| **準備論文** |  |  |  |  |  |  |  |  |  |  |

表6.1執行進度甘特圖

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