**Database Final Project Stage 5**

看房平台

Group 2

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1. Briefly describe what what your project is about and what the project accomplished
2. Discuss the usefulness of your project, i.e., what real problem you solved
3. Include your ER diagram and schema
4. **Discuss the data in your database. Briefly discuss from where you collected data and show you did it (if crawling is automated, explain how and what tools are used)**

**來源：**信義房屋的官網

**工具：**selenium、openpyxl、Requests、Beautiful Soup、os（以上為python的函式庫）

**獲取過程：**

我們在python使用selenium進行爬蟲抓取文字資料，之後用openpyxl整理進入excel檔案，轉成csv後，在cmd輸入sqlite3的指令直接匯入資料庫。

圖片方面則是使用Python的Requests 和Beautiful Soup庫進行處理，然後使用import os進行過濾、整理、重命名。

最終我們爬取了100筆資料。

1. **Clearly list the functionality of your application (feature specs)**

**我們的功能主包括：**

* **使用者驗證**
* **註冊：**填寫唯一的username和其他個人基本資料
* **登錄：**用戶可以用他自己的username和密碼登錄
* **房子顯示**

顯示出房子的資訊，包含房子的基本資料、圖片、提供的設備（租屋）、評價（租屋）以及出租或出售相關資訊（售價、租金、租期）、規矩（養寵物、開伙）、環境資訊（停車場、警衛等等）

* **房子新增、刪除、編輯**
* **新增房子：**内容包括房子的文字資訊和圖片
* **刪除房子：**已Login的用戶可以刪除自己發佈的房子
* **編輯房子：**已Login的用戶可以編輯自己發佈的房子，包括新增刪除相關圖片
* **顯示的排序**

在房子總覽頁面、可以選擇按照更新時間、坪數、價格排序

* **瀏覽記錄**

記錄用戶看過什麽房子，并且會顯示在用戶個人的用戶中心、此外可以清空瀏覽記錄

* **評價**

用戶可以對租屋進行評價、評價方式分爲對屋主的態度、房子的設備

* **收藏**
* **加入收藏：**收藏自己喜歡的房子
* **取消收藏：**移除自己收藏過的房子
* **查看自己的收藏：**在用戶中心查看
* **預約**
* **預約房屋（買家）：**預約看房日期和時間
* 同意、拒絕預約（賣家）
* 更新預約狀態

1. **Explain on basic functions**

* **使用者驗證**
* **房子顯示**
* **房子新增、刪除、編輯**
* **顯示的排序**
* **瀏覽記錄**
* **評價**
* **收藏**
* **預約**

1. Show the actual SQL code snippet
2. List and briefly explain the dataflow, i.e., the steps that occur between a user entering the data on the screen and the output that occurs (you can insert a set of screenshots)
3. Explain your advanced function and why it is considered as advanced. Being able to do it is very important both in the report and final presentation
4. Describe one technical challenge that you encountered. This should be sufficiently detailed such that another future team could use this as helpful advice if they were to start a similar project or were to maintain your project. Say you created a very robust crawler - share your knowledge. You learnt how to visualize a graph and make an interactive interface for it - teach all! Know how to minimize time building a mobile app - describe!
5. State if everything went according to the initial development plan and proposed specifications, if not - why?!
6. Provide a link to your video