

Homework3 Specification

1. Change the **information** column to an independent datatable to complete third normal form

將 information 欄位獨立成一張表，完成第三正規化

- This datatable could be managed by admin only and the admin could add and delete information records.

由 admin 管理，可新增與刪除

- If there are some houses use that information but admin still delete the information record, please delete that information record but also reserve the house records .

若在有 house 使用該 information，但還是要刪除，請刪除該資料但要保留房屋資訊

- one house may have multiple information (could be 0 also)

一個 house 可能有多個 information(也有可能 0 個)

2. Change the **location** column to an independent datatable to complete third normal form.

將 location 欄位獨立成一張表，完成第三正規化

- This datatable could be managed by admin only and the admin could add and delete location records.

由 admin 管理，可新增與刪除

- If there are some houses use that information but admin still delete the record, please delete that information record but also reserve the house records.

若在有 house 使用該 location，但還是要刪除，請保留房屋資訊，並在表單顯示上地點顯示"未知"

- one house only have one location

一個 house 一定只有一個 location

3. Reservation page 訂房功能頁面

- landlord 房東

- i. In house admin page ,please show check-in and check-out date and order by which user name for each house.

房屋管理，每間房屋須顯示哪些時間被哪個使用者預訂，例如 house A
2017-11-11 被 User A 預訂

- tenant 房客

i. Tenant could search house by check-in date and check-out date and order the house by a button which should be displayed beside the favorite button.
房客可在搜尋列表訂房，訂房日期與退房日期就是搜尋的日期，訂房的按鈕請放在我的最愛按鈕旁邊

ii. Each tenant has order page that should show the reservation detail like all house columns and the check-in check-out date and could edit the reservation's check-in check-out date and also delete the reservation.
房客擁有管理自己訂房的頁面，需顯示房屋所有資訊與訂房退房日期，且可編輯訂房與退房日期，也要能刪除訂單該筆訂單

iii. When editing the check-in check-out date of the reservation, if there's other reservation between the new the check-in and check-out date, please give tenant the hint that which dates are reserved between the new the check-in and check-out date and ask tenant to change the reservation
房客可以修改訂房時間，若房客修改的時間已被預訂，需提示房客他選的區間中哪幾天已被預訂，並要求修改

o Each house should only be reserved by one tenant on each day.

一間 house 一天只能有一個房客訂房

o Please check check-out date should be later than check-in date and should not be the same date.

需檢查訂房日期早於退房日期而且不能是同一天

o Please check check-in date should be later than today's date

需檢查訂房日期必須晚於今天日期

o Please handle the problem that check-in date might be the same as check-out date. For example, House A might be check-out by User A then check-in by User B on 2017-11-11.

請處理好退房日期可能會與訂房日期重疊，例如 House A 在 2017-11-11，User A 當天退房，User B 當天訂房

o Please design the table by yourself and should complete third normal form

請自行設計資料表，並符合第三正規化

4. Search check-in date and check-out date 搜尋訂房日期與退房日期

- Add search columns of check-in date and check-out date and two columns are required to fill up

在搜尋欄位新增：訂房日期與退房日期 兩個欄位，且為必填

- For example, if tenant search for house between 2017-11-11 and 2017-12-12, please return him the houses that are reservable from 2017-11-11 to 2017-12-12

例如 使用者想要 2017-11-11 到 2017-12-12，請顯示該區間都可以預訂的房間

5. Search pagination 搜尋分頁

- There're at most five records in one page. If the number of records is greater than five, you have to do pagination. 一個頁面最多顯示五筆資料，超過五筆則分頁顯示

- For example, if there're 13 records, there're 3pages. You should give user the hints which page he is watching now and provide clickable links to other pages. 如果有 13 筆，頁面就要顯示 5 筆資料，分頁需顯示 1 2 3 頁給使用者點選，並顯示總共 13 筆與目前在哪一頁

6. Homework submit 作業繳交

- Please upload following documents to e3

請將下列東西上傳上 e3 上

- Source code

Please pack all source code to a zip file, and name by DB_2017_{\$group NO}.zip, and if you have wrong file name, you will be punished by 10 points

將所有的 source code 一起壓縮成一個 zip 檔，並取名為 DB_2017_{\$組別}.zip e.g.

如果是第三組，請繳交 DB_2017_3.zip，若未依照規定命名，將扣此作業成績 10 分

- If you do not hand in "report", you will be punished by 10 points

沒交報告，將扣此作業成績 10 分

7. Reports must be .pdf file which contains following information:

報告必須是 pdf 檔，包含以下資訊

- Name and student ID of team members

組員姓名和學號

- URL of login page

登入頁面的網址

8. Attention 注意事項

- Can't not use framework
不能使用任何 framework
- All the requirements in HW1 and HW2 should also be done in HW3
作業 1 2 的所有要求作業 3 也要做到
- Database should be MySQL
資料庫請使用 MySQL
- Language should be HTML、PHP、CSS、JS only
語言請使用 HTML、PHP、CSS、JS only
- You should use native SQL instruction
必須直接下 SQL 指令
- Should be able to prevent SQL injection
助教會隨機抽查，能不能阻擋 SQL injection
- UI should be designed by yourself. The principle is if you complete the features, we'll give you point.
請自行設計 UI，原則是功能有達成，我們就會給分
- Pages and pages should be transfer by hyperlink. If there's an page that should click previous button on browser, you'll lose some points.
頁面之間必須要能連結，如果有任何點瀏覽器上一頁才能回去，將扣分

9. Deadline: 1/11(Thursday) 23:59:59

- No delay, otherwise, you will get 0 point
不接受遲交，如果遲交，0 分
- Plagiarism is not allowed
抄襲，0 分

10. Demo : 1/12 (Friday)