

Database HW3

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Outline

- I. Information Table 房屋資訊表格
- II. Location Table 房屋位置表格
- III. Reservation Page 訂房功能頁面
- IV. Search check-in date and check-out date 搜尋訂房日期與退房日期
- V. Search Pagination 搜尋分頁
- VI. Homework Submit 作業繳交
- VII. Report 報告
- VIII. Attention 注意事項
- IX. Deadline: 1/11(Thursday) 23:59:59

I. Information Table

Information

1. third normal form
完成第三正規化
2. managed by admin only and the admin could add and delete information records.
由admin管理, 可新增與刪除
3. 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
4. one house may have mutiple informations (could be 0 also)
一個house可能有多個information(也有可能 0個)

II. Location Table

Location

1. third normal form

完成第三正規化

2. managed by **admin** only and the admin could add and delete information records.

由**admin**管理, 可新增與刪除

3. 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**"

4. one house **only** have one location

一個house **一定只有**一個location

III.Reservation Page

Landlord 房東 - House Page

1. 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

House Page

Home

Log Out

House	Check-in	Check-out	Vistor
Cozy House	2017-01-01	2017-01-02	John
Cozy House	2017-01-03	2017-01-05	May
Sunrise	2017-01-04	2017-01-05	Sam

Tenant 房客

1. Tenant could search house by check-in and check-out date and order the house
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
2. Booking button should be displayed beside the favorite button.
訂房的按鈕請放在我的最愛按鈕旁邊

Tenant 房客

3. Order Page

- a. Show the reservation detail like all house columns and the check-in check-out date

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

- b. Edit the reservation's check-in check-out date and also delete the reservation.

可編輯訂房與退房日期，也要能刪除訂單該筆訂單

Order Page

Order Page

Home

Favorite

Log Out

ID	Name	Owner	Check-in	Check-out	Option	
1	Cozy		Sam	2017-01-01	2017-01-02	Delete	Edit
2	Sunrise		Jim	2017-03-05	2017-03-08	Delete	Edit

Tenant 房客

4. Edit and Hint

- a. If there's other reservation ,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

Edit and Hint

Order Page

Home Favorite Log Out

ID	Name	Owner	Room	Option
1	Cozy		Sam	101-02	Delete Edit
2	Sunrise		Jim		OK

Message from webpage

The room has been reserved.
Please change the check-in date!

OK

10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Notice

1. 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
2. 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
3. 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
4. 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
5. 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

IV. Search check-in date and check-out date

Search Page

1. 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

2. 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

Search Page

House Search

Favorite

Log Out

Keyword

.....

Keyword

2017-04-01

2017-04-02

Search

ID	Name	Price	Location	Time	
1	Sunny	500	Taipei	2017-01-01	
			⋮		
2	Cozy	600	Hsinchu	2017-01-02	Kevin

April 2017

Mon

Tue

Wed

Thu

Fri

Sat

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B

V.Search pagination

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Pagination

1. There are 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

2. 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

VI. Homework submit

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Homework submit

- Please upload following documents to e3

請將下列東西上傳上 e3 上

- Report 報告
- Source code

Please pack all source code to a zip file, and name by DB_2017_{\$組別}.zip

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
- 未交report, 將扣此作業成績10分

VII. Report



Report

- 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
- URL of your database and its account and password
你們這組使用的資料庫 url及資料庫的帳號密碼

VIII. Attention



Attention

- Can't not use framework
不能使用任何 framework
- All the requirements in HW1, 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
- No SQL injection
助教會隨機抽查, 能不能阻擋 SQL injection

Attention

- 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

IX. Deadline

Deadline

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

Demo: 1/12(Friday)