Database HW2

Outline

I. Add three new tables

House

Attribute	Type	Index
id	INT	Primary key
name	TEXT	
price	INT	
location	TEXT	
time	DATE	
owner_id	INT	Foreign key, references to user table

- Attribute "time" is the time when the house is registered
- **You can change the type of time**
  你可以更改time的型態

Information

Attribute	Type	Index
id	INT	Primary key
information	TEXT	
house_id	INT	Foreign key, references to house table

Favorite

Attribute	Type	Index
id	INT	Primary key
user_id	INT	Foreign key, references to user table
favorite_id	INT	Foreign key, references to house table

II. Home page

Home page

- This page will show after login
  登入後會進入這個頁面
- Show information of all house include (id, name, price, location, time, owner, information)
  列出所有房子的資訊包含(id, name, price, location, time, owner, information)
  - Notice：The attribute "owner" shows the house's owner's name, not owner_id (Hint：Use Join)
    注意：owner 那欄顯示的是屋主名字而不是 owner_id
  - At the end of each row there is a button that can add the house to favorite list, and if the house has already been in the list, show "Already in the list"
    每個房子資訊最後有一個按鈕可以將房子加到我的最愛裡, 如果房子已經在我的最愛的話, 則印"已在我的最愛 內"

Home page

- Sort the currently displayed house by price, time
可以透過價錢及時間排序目前顯示的房子
  - There are two buttons over the attributes "price"and"time" can decide sort order
價錢與時間的欄位上各有2個按鈕可以決定由大到小或者由小到大排序
- Every column can be searched by some keywords (the price should be searched by interval, and the information should be searched by option)
每個欄位都要能用一些關鍵字搜尋, price的部分則是用區間搜尋
  - Change the table to the result you searched
將原本的 table 替換成搜尋結果
  - Result include (id, name, price, location, time, owner, information)
結果包含 (id, name, price, location, time, owner, information)
  - Notice：The attribute "owner" shows the house's owner's name, not owner_id (Hint：Use Join)
注意：owner 那欄顯示的是屋主名字而不是 owner_id

Home page

- If the user is a admin, there is a button behind each house that can be deleted by the admin
  如果登入身分為管理員, 每列房屋最後都有一個刪除的按鈕可以讓管理員刪除房屋
- Add a button that can go to "House management page"
  新增一個可以前往房屋管理頁面的按鈕
- Add a button that can go to "Favorite list page"
  新增一個可以前往我的最愛頁面的按鈕

Home page

- If the user is a admin, add a button that can go to "Member management page"
如果登入身分為管理員, 新增一個可以前往會員管理頁面的按鈕
- Add a button for logout
要有登出的按鈕
  - After logout the page will be navigated to the login page
登出後會被導回登入畫面

Example

- user
- information search 的選項可複選

Example

- admin
- information search 的選項可複選

III. House management page

House management page

- Show the information of all houses post by the user (if the user didn't post any house before, just show "You don't own any house yet" on the house management page)
  列出這個 user 擁有的所有房子資訊 (如果這個 user 沒有任何房子那就在房屋管理頁面印 "您尚未擁有任何房子")
  - The information should include: id、name、price、location、time、owner、information
    房子的資訊須包含：id、name、price、location、time、owner、information
  - Notice：The attribute "owner" shows the house's owner's name, not owner_id (Hint：Use Join)
    注意：owner 那欄顯示的是屋主名字而不是 owner_id

House management page

- Add a new house
  新增房子
  - Should update the house table on the page
    需要更新頁面上顯示的表格
  - Need to have a button for cancel
    要有取消的按鈕
  - After cancel, the page should be navigated back to the house management page
    按下取消後要回到房屋管理的頁面
- Delete a house
  刪除房子
  - Should update the house table on the page
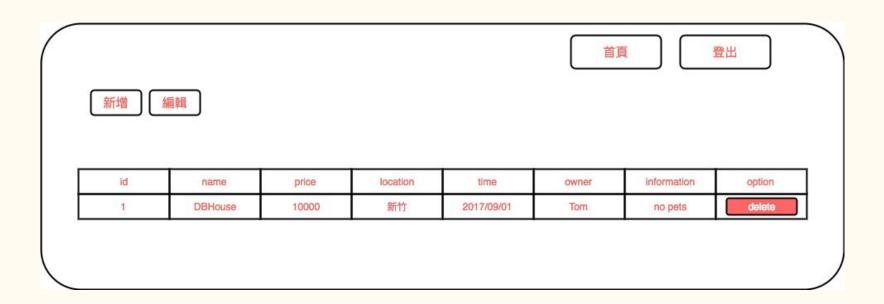   需要更新頁面上顯示的表格

House management page

- Update a house
  修改房子
  - After update, go back to "House management page" and update the house table on the page
    修改後需要回到房屋管理頁面並更新顯示的表格
  - Need to have a button for cancel
    要有取消的按鈕
  - After cancel, the page should be navigated back to the house management page
    按下取消後要回到房屋管理的頁面
- Add a button back to "Home Page"
  新增一個按鈕可以回到首頁
- Add a button for logout
  新增一個登出按鈕
  - After logout the page will be navigated to the login page
    登出後會被導回登入畫面

Example

- a user who owns a house

id	name	price	location	time	owner	information	option
1	DBHouse	10000	新竹	2017/09/01	Tom	no pets	delete

首頁　　登出

新增　編輯

House management page

- a user who doesn't own a house

IV. Favorite list page
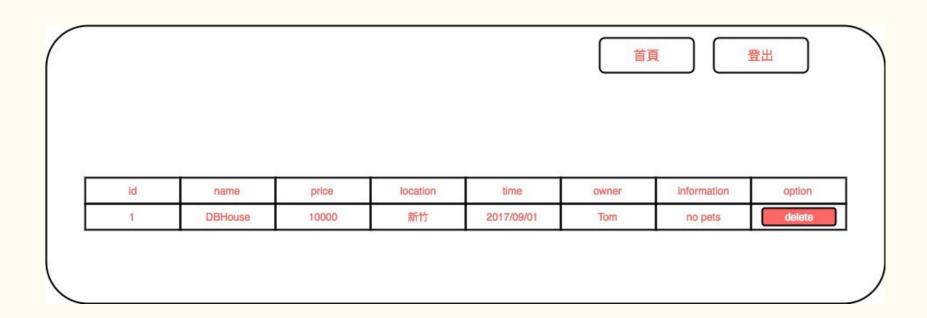
Favorite list page

- Show the information of the user's favorite houses (if the user didn't like any house before, just show "You don't have any favorite house" on the "Favorite list page") (You have to use SQL syntax: JOIN)
  列出這個user所有喜歡的房子, 如果user沒有任何喜歡的房子, 則在"Favorite list page"印"您尚未有我的最愛"(必須使用到SQL : JOIN)
- Delete a house in the user's favorite houses
  刪除我的最愛裡的房子
- Add a button back to "Home Page"
  新增一個按鈕可以回到首頁

Favorite list page

- Add a button for logout
  新增一個登出按鈕
- After logout the page will be navigated to the login page
  登出後會被導回登入畫面

Example

- a user who has a favorite house

id	name	price	location	time	owner	information	option
1	DBHouse	10000	新竹	2017/09/01	Tom	no pets	delete

首頁　　登出

Example

- a user who doesn't have a favorite house

V. Member management page

Member management page

- Show information of this user: name, account, email(same as user)
  列出這個使用者的所有資訊: 姓名, 帳號, 郵件(跟一般使用者一樣)
- List a table of all users and their information(id、name, account, email, identity)
  列出一張表包含所有使用者的資訊(id、姓名, 帳號, 郵件, 身分)
- Identity shows whether the user is admin or not
  身份顯示是一般使用者還是管理員
- Add a button back to "Home Page"
  新增一個按鈕可以回到首頁
- Add a button for logout
  新增一個登出按鈕

Member management page

- User management 一般使用者管理
  - Create new user or admin
    新增一般使用者或管理員
  - Delete user or admin
    刪除一般使用者或管理員
    - The house which belongs to the deleted user should also be deleted　　　　　　　那些屬於被刪掉使用者的房子也要一起被刪掉 (Hint: CASCADE)
  - Promote a user to be admin
    讓一般使用者變成管理員

VI. Dataset

Dataset

- 26 houses
- 10 types of house information

	A	B	C	D	E	F	G	H	I	J	K
1	id	1	2	3	4	5	6	7	8	9	10
2	name	Cozy Hostel	Sunny Day	Warm House	Winterfell	Honey Bee	Sky Tree	Pinky House	Sam's Park	Wonderland Hotel	Owl's Nest Inn
3	price	500	1200	800	1000	750	1500	880	950	1800	600
4	location	Taipei	Hualien	Taichung	Keelung	Tainan	Taipei	Hsinchu	Tainan	Taoyuan	Yunlin
5	time	2017/10/10	2017/8/26	2017/4/29	2017/1/28	2017/6/9	2017/4/11	2017/5/5	2017/3/17	2017/8/24	2017/4/1
6	owner	Ken	Ken	Ken	Robb	Robb	Robb	Sam	Sam	Lisa	Lisa
7	information	laundry facilities	wifi	laundry facilities	lockers	laundry facilities	lockers	laundry facilities	wifi	laundry facilities	wifi
8		wifi	kitchen	wifi	kitchen	wifi	wifi	wifi	kitchen	lockers	kitchen
9		no smoking	no smoking	kitchen		no smoking	elevator	elevator	no smoking	wifi	television
10			breakfast	television		television	no smoking	breakfast	television	elevator	
11				toiletries provided		breakfast	television		shuttle service	television	
12						shuttle service	toiletries provided			toiletries provided	
13											
5											
6	information	laundry facilities	wifi	lockers	kitchen	elevator	no smoking	television	breakfast	toiletries provided	shuttle service

Example

id	1
name	Cozy Hostel
price	500
location	Taipei
time	2017/10/10
owner	Ken
information	laundry facilities
	wifi
	no smoking

House Table

id	1
name	Cozy Hostel
price	500
location	Taipei
time	2017/10/10
owner_id	1

Assume id of "Ken" in User Table is 1

Information Table

id	1	2	3
information	laundry facilities	wifi	no smoking
house_id	1	1	1

VII. Homework submit

Homework submit

- Please upload following documents to e3

  請將下列東西上傳上 e3 上

- Report 報告

  See part 6 for detail

- 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

VIII. 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

IX. Attention

Attention

- **Please make sure you have all datasets which TA provided in your database**
  請確認你的資料庫裡有所有 TA提供的dataset (TA提供的dataset不是範例!!!!!)

- Can't not use framework
  不能使用任何framework

- All the requirements in HW1 should also be done in HW2
  作業1的所有要求作業2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

X. Deadline

Deadline

Deadline: 12/3(Sunday) 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