Title: Hotel Booking

Background

Build a website to service booking hotel online.

Program Specifications

In this assignment, you are requested to develop a booking website. You must use Filter as Controller and follow MVC2 model.

Features:

This system contains the following functions:
- Function 1: Login- 50 LOC
  o In order to booking, an authentication is required.
  o If the user has not authenticated, the system redirects to the registration page.
  o The actor enters userID and password, the function checks if the userID with the password is in the available user list, then grant the access permission. If not, a message would appear no notify that user is not found.
  o Login function is required for shopping.
- Function 2: Display- Search- 50 LOC
  o List all hotel which has an available room in the system.
  o Each hotel has some kind of room: single, double, family,…
  o Each room type has different price.
  o User can find the room based on hotel name or hotel area and check in date and check out date and amount of room.
  o All users can use this function (login is not required)
- Function 3: Registration- 50 LOC
  o Register new user: email as ID, phone, name, address, create date.
  o Create date is current date.
  o The default status of new user is active.
  o Password must be encrypted using SHA-256 before store in database.
- Function 4: Booking- 150 LOC
  o All users can use this function except admin role (login is required)
  o Add the selected room to booking cart.
  o Each user can book any available room in the list (not limit the amount room want to book)
  o User can view the selected room in the cart. For each room: hotel name, room type, amount, price, total. The screen must show the total amount of money of this cart.
  o User can remove the room from the cart. The confirm message will show before delete action.
  o User can update amount of each room in cart.
  o Click the Confirm button to store the booking to database (must store the buy date time). The warning message will show if the selected room is out of stock.

- o   During booking user enter the discount code (if any). Each discount code has its expiry date.
- Function 5: Booking history- 100 LOC
    - o   User can take over the booking history: list of booking order by booking date.
    - o   Support search function: search by name or booking date
    - o   Support delete function to delete the booking (update the status of booking to inactive).
- Function 6: Booking confirm by email- 100 LOC (extra)
- Function 7: Feedback on the quality of room service- 50 LOC(Extra)
    - o   The user sends a feedback to the quality of the room he has booked.
    - o   Rating is performed only when the user has used the service.
    - o   Rating on a scale of: from 0 to 10.
- Function 8: Create Discount code-50 (Extra)
    - o   Admin can create discount code: codeId, codeName, discountPercent, dateCreate.
- Function 9: Login with reCAPTCHA-50(Extra)
    - o   Integrated login using Google reCAPTCHA service.
- Function 10: Reset password-50(Extra)
    - o   The system will send the link to reset your password via registered email.

* The above specifications are only basic information; you must build the application according to real requirements.

* You have to build your own database.

* The lecturer will explain the requirement only once on the first slot of the assignment.