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| **LAB 221Assignment** | **Type:** | **Long Assignment** |
| **Code:** | **J3.L.P0002** |
| **Point:** | **400+** |
| **Slot(s):** | **NA** |

**Title:** Hotel Booking

**Background**

Build a website to service booking hotel online.

**Program Specifications**

In this assignment, you are requested to develop a booking app.

**Features:**

This system contains the following functions:

* Function 1: Login- 50 Points
  + In order to shopping, an authentication is required.
  + If the user has not authenticated, the system redirects to the create page.
  + 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.
  + Login function is required for shopping.
* Function 2: Display- Search- 50 Points
  + List all hotel which has an available room in the system.
  + Each hotel has some kind of room: single, double, family,…
  + Each room type has different price.
  + User can find the room based on hotel name or hotel area and check in date and check out date and amount of room.
  + All users can use this function (login is not required)
* Function 3: Insert- 50 points
  + Create new user: email as ID, phone, name, address, create date.
  + Create date is current date.
  + The default status of new user is active.
* Function 4: Booking- 150 points
  + All users can use this function except admin role (login is required)
  + Add the selected room to booking cart.
  + Each user can book any available room in the list (not limit the amount room want to book)
  + 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.
  + User can remove the room from the cart. The confirm message will show before delete action.
  + User can update amount of each room in cart.
  + 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.
  + During booking user enter the discount code (if any). Each discount code has its expiry date.
* Function 5: Booking history- 100 points
  + User can take over the booking history: list of booking order by booking date.
  + Support search function: search by name or booking date
  + Support delete function to delete the booking (update the status of booking to inactive).

\* 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.