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| **LAB 221Assignment** | **Type:** | **Long Assignment** |
| **Code:** | **J3.L.P0001** |
| **Point:** | **400+** |
| **Slot(s):** | **NA** |

**Title:** User Management

**Background**

User management is the core function of any application.

**Program Specifications**

In this assignment, you are requested to develop a simple user management system.

**Features:**

This system contains the following functions:

* Function 1: Login- 50 Points
  + In order to access the page user list, an authentication is required.
  + If the user has not authenticated, the system redirect to the login 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 includes logout and welcome functions.
* Function 2: User Search- 50 Points
  + List all available users with their photoName in the system.
  + There are N+1 tab, with N is a number of user group (EX: we have 2 user groups: Admin and Sub then we have three tabs: All, Admin, Sub.
  + Non Admin user only see himself.
  + User input the text that they want to find and click the Search button or the Enter key. A list user which contain the search keyword (search by Name).
* Function 3: Delete- 50 points
  + Remove the selected user.
  + Update list user after delete.
  + Remember that delete action is update the status to Inactive.
  + Login is required.
* Function 4: Update- 50 points
  + Update information of the selected user: username, password, email, phone, photo, role
  + Login is required.
* Function 5: Insert- 50 points
  + Create new user
  + Only Admin role has permission to create a new user.
  + The default status of new user is active.
  + Password must be encrypted using SHA-256 before store in database.
* Function 6: Assign user to promotion list- 150 points
  + Only Admin role has permission to use this function.
  + Add user to promotion list with default rank is 5.0. Rank has value from 1 to 10.
  + Each user can only one time to add to the promotion list. The warning message will show if user has already in the promotion list.
  + Admin role user can view the promotion list.
  + Admin role user can remove the user from the promotion list.
  + Admin role user can update the rank of each user in the promotion list.
  + Click the Confirm button to store promotion list to database.
* Function 7: Promotion history- 50 points(extra)
  + User can take over the promotion history: list of promotion order by assignment date.

\* 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 this assignment.