LAB 321Assignment

Type:	**Long Assignment**
Code:	**J3.L.P0009**
Point:	**750**
Slot(s):	**NA**

Title: Resource Sharing

Background

Build a website to share the company's resource.

Program Specifications

Build a website for managing resource sharing within the company. A company is divided into 3 groups of employees: manager, leaders, employees. Leaders and employees group have different role to use resources. The Manager has the right to accept or deny the requests of subordinate employees. **You must use STRUTS 2 framework to implement this assignment**.

Features:

This system contains the following functions:

- **Function 1: Login- 100 Points**
    - 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 to notify that user is not found.
    - o Login function includes logout and welcome.
    - o Must integrated login using Google reCAPTCHA service.

- **Function 2: Display- Search- 50 Points**
    - o All users can use this function (login is required).
    - o User can find the resource based on category, name and using dates.
    - o List first 20 available items in the system corresponding with login user and order by item name: item name, color, category, quantity.
    - o Paging is required.

- **Function 3: Create new account-100 points**
    - 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 New.
    - o You must verify the email address of the user before changing the status of new user to Active.

- **Function 4: Booking- 100 points**
    - o All users can use this function except manager role (login is required)
    - o If the user has not authenticated, the system redirect to the login page.
    - o Members can send a request to use the resource and waiting for the manager's approval.
    - o The default status of the request is New. The status will be changed to Accept if the manager accepts that request.

- **Function 5: Request process- 150 points**
    o Only manager account can use this function.
    o List first 20 requests in the system order by date. Paging is required.
    o Support search function: date, resource name, user request, status (New, Delete, Accept).
    o User input the text that they want to find and select request's status after that click the Search button or the Enter key. A list request which contain the search keyword (search by content)
    o Delete or approval the selected request.
    o Update list request after delete or approval.
    o Delete action is update the status of request to Delete.
    o Approval action is change the status of request to Accept.

- **Function 6: Request history- 100 points**
    o User can take over the request history: list of request order by booking date.
    o Support search function: search by name or request date.
    o Support delete function to delete the request (update the status of request to inactive).
    o Login is required
- **Function 7: Store database on Amazon web service- 100 points(extra)**
    o Store website data on Amazon Relational Database Service.

- **Function 7: Login with Google account- 50 points (extra)**
    o User can login by using Google account.

* The above specifications are only basic information; you must perform a requirements analysis step and 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.