

LAB 321 Assignment

Type:
Code:
Point:
Slot(s):

Long Assignment
J3.L.P0016
750
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, and 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.
- **Student must use Servlet as Controller and follow MVC2 model.**

Features:

This system contains the following functions:

- **Function 1: Login- 100 Points**
 - The actor enters userID and password
 - The function checks if the userID with the password is in the available user list, then system grants the access permission.
 - Otherwise, a message would appear to notify that user is not found.
 - Login function includes logout and welcome.
 - This function must integrate with verify service using Google reCAPTCHA service.
- **Function 2: Display- Search- 50 Points**
 - All users can use this function (login is required).
 - User can find the resource based on category, name and using dates.
 - List first 20 available items in the system corresponding with login user and order by item name. Some information is shown as item name, color, category, quantity.
 - Paging is required.
- **Function 3: Create new account-100 points**
 - Register new user with information such as email as userID, phone, name, address, create date.
 - Create date is current date.
 - The default status of new user is New.
 - You must verify the email address of the user before changing the status of new user to Active.
- **Function 4: Booking- 100 points**
 - All users can use this function except manager role (login is required)
 - If the user has not authenticated, the system redirects to the login page.
 - Members can send a request to use the resource and waiting for the manager's approval.

- 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**
 - Only manager account can use this function.
 - List first 20 requests in the system order by date. Paging is required.
 - This function is used to support search old request/available process with showing with some information such as date, resource name, user request, status (New, Delete, Accept).
 - 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)
 - This GUI allows to delete or approval the selected request.
 - The list result must be updated after delete or approval.
 - Delete action is used to update the status of request to Delete.
 - Approval action is used to change the status of request to Accept.
- **Function 6: Request history- 100 points**
 - User can take over the request history: list of request order by booking date.
 - This function is used to support search old request by searching following name or request date.
 - This function is used to support delete old request in list result
 - **Notes:** update the status of old request to inactive
 - Login is required by user
- **Function 7: Store database on Amazon web service- 100 points(extra)**
 - This function is used to store website data on Amazon Relational Database Service.
- **Function 7: Login with Google account- 50 points (extra)**
 - 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.