

LAB 231 Assignment

Type:
Code:
Point:
Slot(s):

Long Assignment
J3.L.P0004
450++
NA

Title: Simple Blog

Background

You want to build a simple blog. It is a place for member to post their articles, and interact between members through the comment function on each article.

Program Specifications

In this assignment, you are requested to build a simple blog. You must use Servlet as Controller and follow MVC2 model.

Features:

This system contains the following functions:

- Function 1: Registration - 50 points
 - o Registration a new account: email, name, password, role, status(email as ID).
 - o The default role of new account is member.
 - o The default status of new account is New.
 - o Password must be encrypted using SHA-256 before store in database.
- Function 2: Login- 50 Points
 - o The actor enters ID and password, the function checks if the ID with the password is in the available account list, then grant the access permission. If not, a message would appear no notify that account is not found.
 - o Login function includes logout and welcome functions.
- Function 3: Article Search- 50 Points
 - o List the available article in the system and sort by date: title, shortDescription, author, date.
 - o Each page has a maximum of 20 records displayed. Paging is required to use.
 - o User input the text that they want to find and click the Search button or the Enter key. A list article which contain the search keyword (search by content).
 - o Login is not required.
- Function 4: Article Detail- 50 Points
 - o List the available article in the system and sort by date.
 - o Each page has a maximum of 20 records displayed. Paging is required to use.
 - o When clicking on the title column in each record, the details of the article are displayed: title, short description, content, author, posting date and the list of corresponding comments.
 - o Login is not required.
- Function 5: Post the article - 50 points
 - o In order to post the article to the blog an authentication is required.
 - o If the user has not authenticated, the system redirect to the login page.
 - o Members can post their articles on the blog and wait for the admin's approval.
 - o The default status of the article is New. The status will be changed to Active if the admin accepts that post.

- Only member can use this function.
- Function 6: Post the comment- 50 points
 - In order to post the comment an authentication is required.
 - If the user has not authenticated, the system redirect to the login page.
 - Members can post their comment on the article.
 - Only member can use this function
- Function 7: Blog process- 150 points
 - List first 20 articles in the system order by date. Paging is required to use.
 - Support search function: by article name, status (New, Delete, Active).
 - User input the text that they want to find and select article's status after that click the Search button or the Enter key. A list article which contain the search keyword (search by content)
 - Delete or approval the selected article.
 - Update list article after delete or approval.
 - Delete action is update the status to Deleted.
 - Approval action is change the status to Active
 - Only admin account can use this function.
- Function 8: Authentication available email: 50 points (extra)
 - Authentication available email when registering a user.
 - When registering a new account, the system will send a confirmation code to the email address.
 - After entering the verification code, the status of the account will change to Active.
 - Only member can use this function.

* 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.