

# 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.