Title: Mini Social Network

Background

You want to build a mini social network. Basic functions such as account registration, login, post articles, comment on the articles.

Program Specifications

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

Features:

This system contains the following functions:
- Function 1: Register a new account - 50 LOC
  o A new account is registration following information such as 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 LOC
  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: Search article - 50 LOC
  o List the available article in the system and sort by date: tittle, description, image, date.
  o Each page has a maximum of 20 records displayed. Paging is required to use.
  o User inputs the text that they want to find and click the Search button or the Enter key. A list article contains the search keyword (search by content).
  o Login is required.
- Function 4: Display Article Details - 50 LOC
  o Users click on each post to see details such as comments, number of likes, and dislikes.
  o Login is required.
- Function 5: Post the article - 50 LOC
  o In order to post the article to the social network, an authentication is required.
  o If the user has not authenticated, the system redirects to the login page.
  o Members can post their articles on the social network.
  o The default status of the article is Active. The status will be changed to Delete if the user or Admin deletes that post.
  o Only member can use this function.
- Function 6: Post the comment- 50 LOC
  o For each article, authenticated user can post the comments.

- o In order to post the comment, authentication is required.
  - o If the user has not authenticated, the system redirects to the login page.
  - o Members can post their comment on the article.
  - o Only member can use this function
- Function 7: Make emotions actions - 50 LOC
  - o For each article, user shares their emotions about the post by click the icon like or dislike.
  - o An authentication is required.
  - o If the user has not authenticated, the system redirects to the login page.
  - o User can change their emotion from like to dislike or dislike to like.
  - o You must show the number of like and dislike of the post.
  - o Only member can use this function.
- Function 8: Show Notification: 100 LOC.
  - o Show all user's interactions on your posts: userID, date, user's comment, user's emotion.
  - o The user clicks on each notification, the system will display the corresponding post and the interaction details (comments, emotions)
  - o Login is required.
- Function 9: Delete the Article: 50 LOC
  - o User can delete his post or his comments.
  - o This action requires to show a confirmation message before deletion.
- Function 8: Verify registered user using email: 50 LOC (extra)
  - o When registering a new account, the system will send a confirmation code to the email address that is registered with third party as Google, Yahoo, etc.
  - o After entering the verification code, the status of the account will change to Active.
  - o 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.