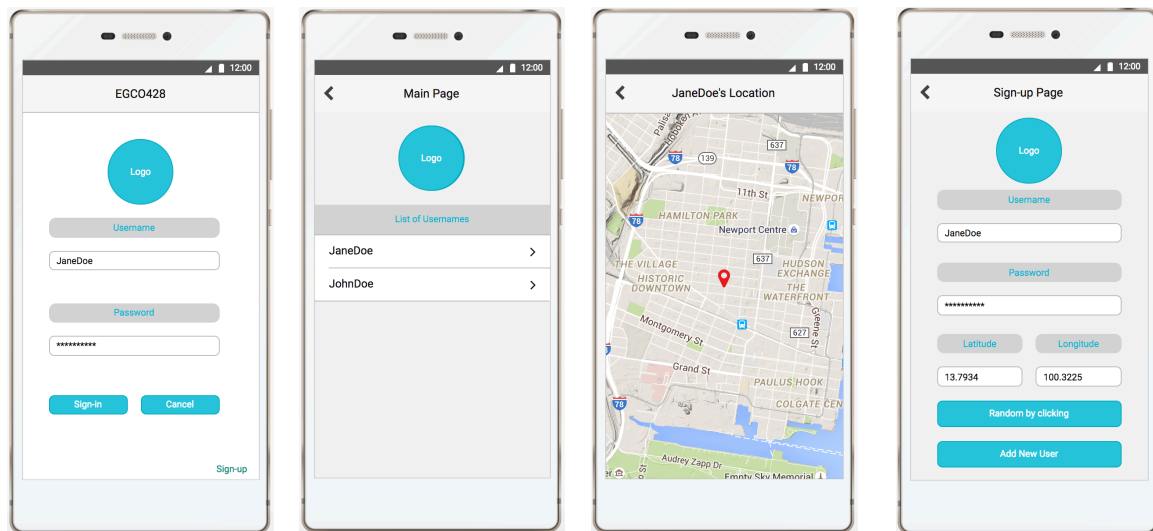# EGCI428 Mobile Programming
- Practice -

Instruction

In this practice, student must create a mobile application based on Android platform (API28) and deploy to a mobile device if possible. The detail of this mobile application is described below.

1. This application contains 4 main pages: Login page, Main page, Location page and Sign- up page. Student must design the user interface as same as the given pages below. You can see from the video file.

Login Page   *Main Page*   *Location Page*   *Sign-up Page*

2. The mobile application must be able to save the username, password, latitude, and longitude of each user to text file (users.txt).

3. Page transition must be assigned in the mobile application as follow:

   Login Page
   - Touch at "Sign-in" button, the application must verify the username and password by comparing to the text file (users.txt).
     (i) If the username and password correct, then toast the message "Login success" and go to Main page.
     (ii) If the username and password incorrect, then toast the message "Login fail" and stay at Login page.
        o Touch "Sign-up" button, go to Sign-up page.
        o Touch "Cancel" button, clear username and password in Text fields.

Main Page

- Each row contains the username. When touch at each row, go to the location page and show the position of that selected username.
- Touch at "<-", show the dialog to confirm user whether the user wants to logout and if the answer is "Yes" then go back to Login page. If the answer is "No" then stay at "Main" page.

Location Page

- Show the map and the center of the map must be set at the location of the selected username.
- Touch at "<-", go back to Main page.

Sign-up Page

- The application will save the username, password, latitude and longitude values in the text file (users.txt) when the user touches at "Add New User" button. Then go back to Login page.
- There are two choices to set the latitude and longitude values. User can select one of these
  choices below.
    (i)   Touch the button to random value OR
    (ii) Shake the mobile device or shake on simulator to random the latitude and longitude values. In this case, you do not need to touch "Random by Clicking" button.
- Student must limit the random values between the range below
  Latitude: (-85.000000, 85.000000) and Longitude: (-179.999989, 179.999989)
- Touch at "<-", go back to Login page