Lab 10-1 – I3350

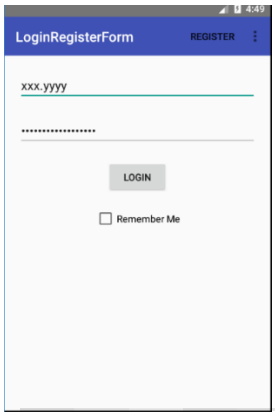
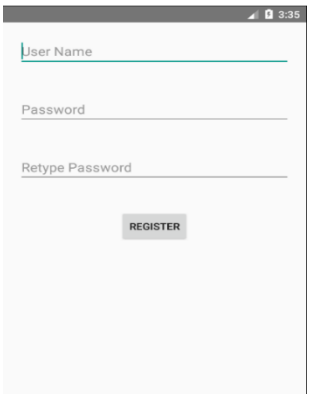
In this exercise, we want to develop two activities of an application A.

Version 1: Suppose that the username and password should be “zein” and “123”.

Version 2: Suppose that the insertion and checking of username and password is done in the file “users.txt”.

Version 3: Assuming to have an SqLite database named "usersManager" containing the table "users (username: TEXT, password: TEXT). Application A offers the following services:

Authentication Service: The first activity of this application (as shown in Figure 1 below) allows the user to log in to the application. After entering his username and password, the user presses the LOGIN button, if the username and password entered correspond to those already existing in the usersManager table of the SqLite database, you must redirect the user to a XXX.class activity. Otherwise, stay on the same activity and alert the user that the username or password is incorrect.

The user can choose to store his username and password by selecting the checkbox "Remember Me". They will be stored in sharedPreferences and are automatically filled each time the application is opened. If the check box is not selected and the data is already stored, the username and password should be removed from the sharedPreferences.

Registration service: If the user does not already have an account, he can create one by pressing the REGISTER button of the toolbar. Pressing the button will redirect it to another " RegistrationActivity " activity as shown in Figure 2. In this activity, the user must give a username, a password (and must repeat the same password), the activity must ensure that the name is unique in the SqLite database and that the password and the repetition are the same before inserting it into the database.