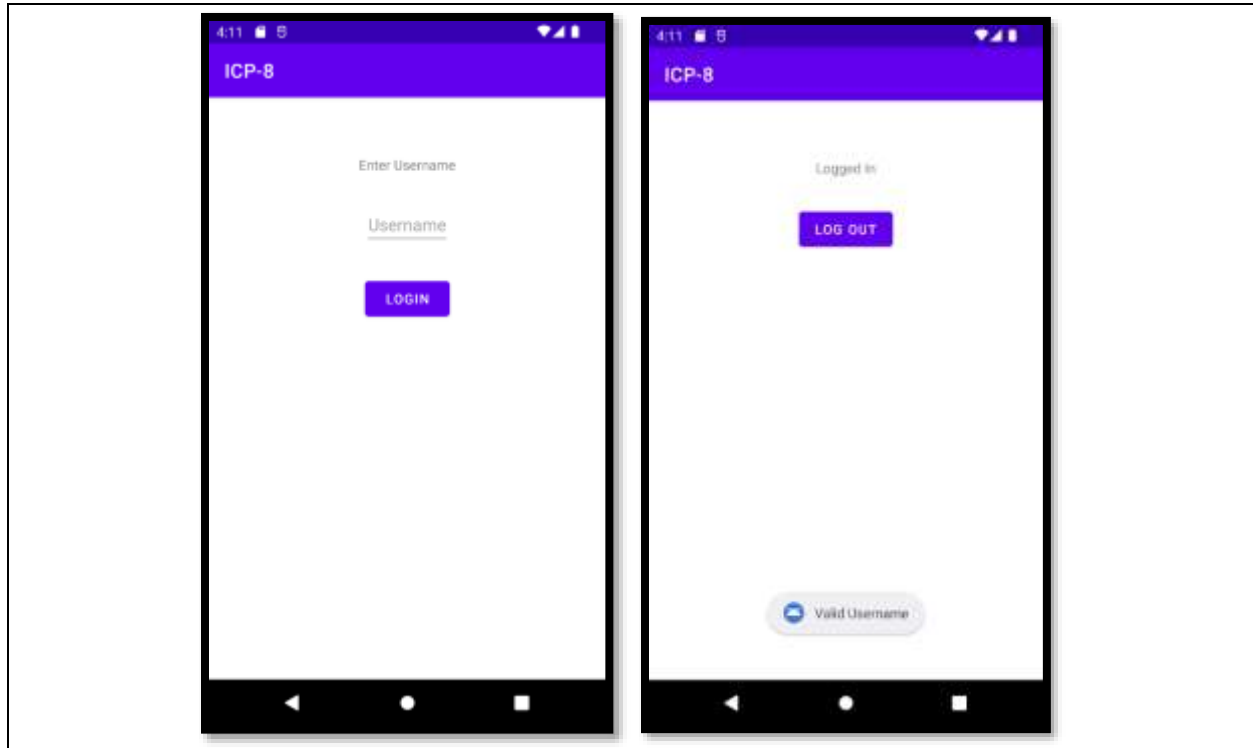# ICP-8

For ICP-8 we designed and wrote logic code for a basic user validation application using Java and Android studio. For this we had to first implement code that specified the user interface for the login and user activities. For this we used a relative layout and margins to specify the elements in the screen. For this we wrote some XML code and implemented the buttons and text view. Then they were given IDs and then centered on the screen to allow for better visual design.

Issues were had with the Android emulator as the previous distribution did not work with the app and a new one had to downloaded, which improved the performance of the emulator. In the future trying to access an Android phone for development would allow faster debugging of issues and testing the emulator before having to start development would be a good idea as it can present issues.

Next then we had to implement the logic for taking input from the user within the Java classes. The three things we had to implement was giving feedback to the user on their input, and finally switching activities based on the user input. For this we used Toasts to display notifications to the user about their input validity. Next we wrote Java code handling the user input and perform the validation, having some difficulty with how the string data was handled and stored. Finally, we implemented code that allowed switching between activities when the data was validated and allowing the user to switch back to the login screen with a log out button.

Repository Link