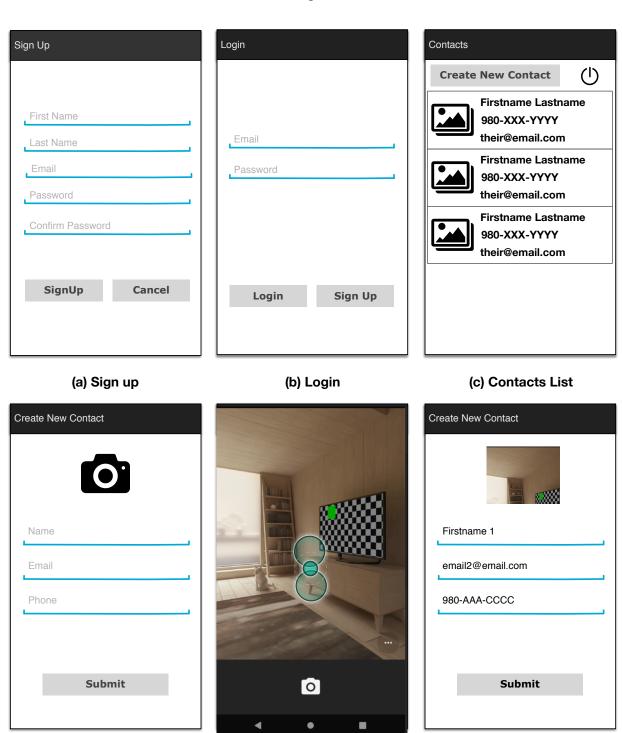
ITIS/CS 5180 Mobile Application Development In Class Assignment 09

Basic Instructions:

- 1. In every file submitted you MUST place the following comments:
 - a. Assignment #.
 - b. File Name.
 - c. Full name of each person in your group.
- 2. Each team is required to submit the assignment on Canvas.
- 3. Please download the support files provided with this assignment and use them when implementing your project.
- 4. Submission details:
 - a. Compress the contents of your project folder. The file name is very important and should follow the following format: **InClass09_Group#.zip**
 - b. Only one group member is required to submit on behalf of the whole group.
 - c. You should submit the assignment through Canvas: Submit the zip file.
- 5. The required Android Virtual Device (AVD) should have **minimum SDK version set** to 23 and target SDK at 28.
- 6. Failure to follow the above instructions will result in point deductions.

In Class Assignment 9 (100 points)

In this assignment you will be building an application that uses firebase to manage he user contacts. You are free to use either fragments or activities.



- (d) Create New Contact
- (e) Camera to take photo
- Figure 1: App Wireframes.

(f) Submit and add

Part 1: SignUp (15 points)

Create the Signup screen to match Figure 1(a), with the following requirements:

- 1. Clicking the "Cancel" button should finish the Signup Screen and start the Login Screen.
- The user should provide their first name, last name, email, password and password confirmation. Preform the required validation(the given password and the repeated password must match). Clicking the "Sign Up" button should submit the user's information to firebase signup.
 - a) If the signup is not successful display an error message indicating the error message received from firebase.
 - b) If the signup is successful, then display a Toast indicating that the user has been created. Then start the Contacts List Screen and finish the Signup Screen.

Part 2: Login (10 points)

This is the launcher screen of you app. The wireframe is shown in Figure 1(b). The requirements are as follows:

- 3. The user should provide their email and password. The provided credentials should be used to authenticate the user using firebase login. Clicking the "Login" button should submit the login information to firebase to verify the user's credentials.
 - a) If the user is successfully logged in then start the Contacts List Screen, and finish the Login Screen.
 - b) If the user is not successfully logged in, then show a toast message indicating that the login was not successful.
- 4. Clicking the "Sign Up" button should start the Signup Screen Figure 1(b), and finish the login Screen.

Part 3, Contacts List (45 Points):

The contact list should display a ListView or RecyclerView showing the list of contacts retrieved from firebase as showing in Figure 1(c). Below are the requirements:

- 1. Retrieve the contacts stored for the currently logged in user from firebase. Note that this is a multi user app and each user should have access to only their stored contacts.
- 2. The list of contacts should be displayed using a ListView or RecyclerView as shown in Figure 1(c).
- 3. Long press on a list item should delete the contact and refresh the list.
- 4. Clicking on the "Create New Contact" button should display the "Create New Contact" screen.
- 5. Clicking on the "Logout" button should logout the current user, start the "Login" screen and finish the current screen.

Part 4, Create New Contact (30 Points):

This screen is used to create a new contact, see Figure 1(d). The requirements are as follows:

1. Clicking the camera icon should open the camera app and you need to take a profile photo. Set the photo at the place of the camera icon, see Figure 1(f). If you do not

- take the photo, you can still save the contact, but with the default image provided as a support file.
- 2. Upon clicking the "Submit" button the new contact should be created and sent to firebase to be stored under the contacts for the currently logged in user. Finally the screen should be finished, which will show the "Contacts List".
 - The "Contacts List" screen should be refreshed to display the updated list.