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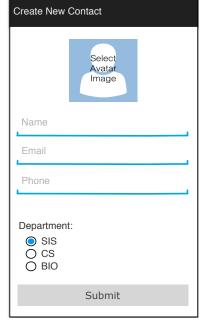**Basic Instructions:**

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: **InClass07_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 16 and target SDK at 25**.
6. **Failure to follow the above instructions will result in point deductions.**

In Class Assignment 7 (100 points)

In this assignment you will be building an application that uses fragments to manage he user contacts. The whole app is a single activity that has multiple fragments.

(a) Contacts List Fragment   (b) Create New Contact Fragment   (c) Select Avatar Fragment

Figure 1, App Wireframes.

Part 1, Contacts List Fragment (40 Points):

The contact list should be managed in an ArrayList that is stored in the MainActivity. The Contacts List activity should get the contacts list from the Main Activity and display it as showing in Figure 1(a). Below are the requirements:

1. The list of contacts should be displayed using a ListView as shown in Figure 1(a).
2. Clicking on a list item should push the current fragment onto the stack and then display the "Edit Fragment".
3. Long press on a list item should delete the contact and refresh the list.
4. Clicking on the "Create New Contact" button should push the current fragment onto the stack and then display the "Create New Contact Fragment".

Part 2, Create New Contact Fragment (40 Points):

This fragment is used to create a new contact. The requirements are as follows:

1. Clicking the "Select Avatar Image" should push the current fragment onto the stack and then display the "Select Avatar Fragment".
2. Upon clicking the "Submit" button the new contact should be created, should be sent to the Main Activity to be stored in the ArrayList of contacts managed by the Main Activity. Finally the fragment should be dismissed, which should show the "Contacts List Fragment".

Part 3, Select Avatar Fragment (20 Points):
This fragment is used to enable the user to pick the avatar to be associated with a given contact. The requirements are as follows:
1. The fragment should display the avatars as shown in Figure 1(c).
2. Clicking on an avatar should send the selected avatar or avatar id to the previous fragment which instantiated this fragment. Then the fragment should be dismissed.