

Mobile Application Development  
In Class Assignment 04

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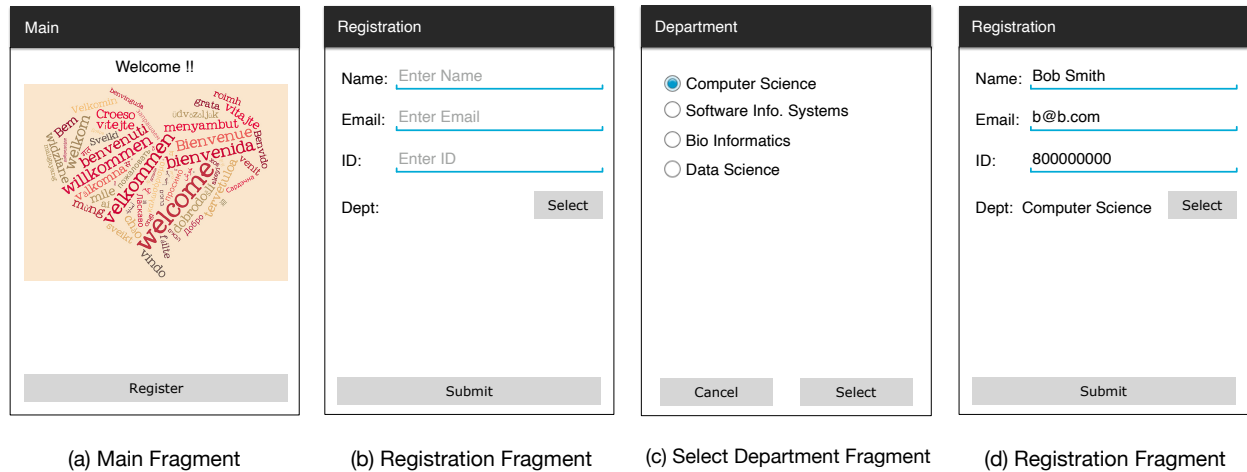
**Basic Instructions:**

1. In every file submitted you MUST place the following comments:
  - a. Assignment #.
  - b. File Name.
  - c. Full name of the student.
2. Each group is required to submit the assignment on Canvas.
3. Submission details:
  - a. Zip all the project folder to be submitted on canvas.
  - b. The file name is very important and should follow the following format:  
**Group#\_InClass#.zip**
  - c. You should submit the assignment through Canvas: Submit the zip file.
4. **Failure to follow the above instructions will result in point deductions.**

### In Class Assignment 4 (100 points)

In this assignment you will be building an application that uses as single activity and multiple fragments and exchanges data among these fragments. Structure and important setup are listed below:

- In this app you will have only one Activity and multiple fragments, all communication between fragments should be managed by the activity.



**Figure 1, App Wireframe**

#### **Part 1: Main Fragment (10 Points):**

The Main Activity is the only activity in this app, and it should load the Main Fragment when it loads as shown in Figure 1(a). The requirements are listed below:

1. The Main Fragment displays the welcome photo as shown in the Figure 1(a).
2. Clicking the “Register” button should communicate with the Main Activity to:
  - a. Replace the current fragment with the Registration fragment.
  - b. Push the current fragment on the back stack.

#### **Part 2, Registration Fragment (35 Points):**

This fragment displays a registration form as shown in Fig 1(b). The requirements are listed below:

1. Create a User class to hold the created user profile.
2. The form requests the user’s name, email, id and department info, see Figure 1(b).
3. Clicking the “Select” button should communicate with the Main Activity to:
  - a. Replace the current fragment with the Department fragment.
  - b. Push the current fragment on the back stack.
  - c. Upon returning from the Department fragment the selected department should be received through the Main Activity, sent to the Registration fragment and should be displayed see Fig 1(d).
4. Clicking the “Submit” button should:
  - a. Check if all the input fields are entered and a department is selected. If any of the inputs or the department is missing show a toast indicating the error.
  - b. If all the fields are entered then create a User object to hold the enter information. Send the created User object to the Main Activity which should:

- i. Replace this fragment with the Profile fragment, send the User object to the Profile fragment.
- ii. Push the current fragment on the back stack.

### **Part 3, Select Department Fragment (35 Points):**

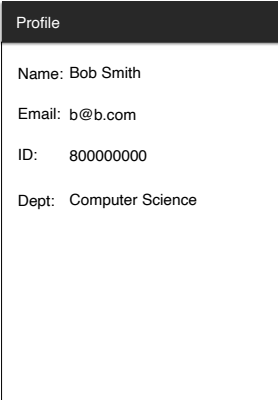
This fragment allows the user to select a department as shown in Fig 1(b). The requirements are listed below:

1. The user is able to select a department from the displayed Radio Group.
2. Clicking “Submit” should send the selected department to the Main Activity to :
  - a. Find the Registration fragment by tag, send it the received new department.
  - b. Pop the back stack, which should display the Registration fragment which should display the selected department as shown in Fig 1(d).
- iii. Clicking “Cancel” should simply communicate with the Main Activity to pop the back stack, which displays the Registration fragment.

### **Part 4, Profile Fragment (20 Points):**

This fragment allows the user to view the submitted profile as shown in Fig 2. The requirements are listed below:

1. The Profile object is received by this fragment from the Registration fragment via the Main Activity.
2. Display the Name, Email, ID and Department as shown in Fig 2.



The image shows a mobile application screen titled "Profile". It displays the following information: Name: Bob Smith, Email: b@b.com, ID: 800000000, and Dept: Computer Science. The text is presented in a simple, clean layout with labels and values separated by a colon.

Profile	
Name:	Bob Smith
Email:	b@b.com
ID:	800000000
Dept:	Computer Science

**Figure 2, Profile Fragment**