Lab 2 – A multi-screen application

CS235AM, Intermediate Mobile Application Development: Android

This lab will give you practice creating a multi-screen application. These are the main concepts you will apply:

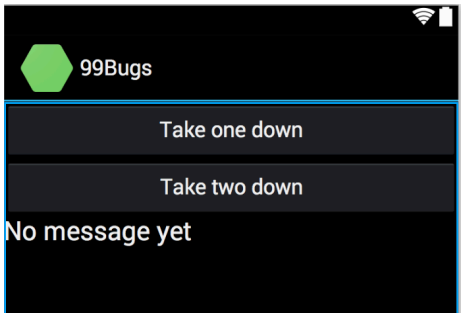
- Starting a new activity using an Intent object
- Sending information from one activity to another using an Intent object
- Using activity life-cycle call-back methods: onCreate and onResume
- Using an ActionBar with “up” navigation to return to a “parent” activity

Part 1 – Tutorial: Hello Multiscreen Apps

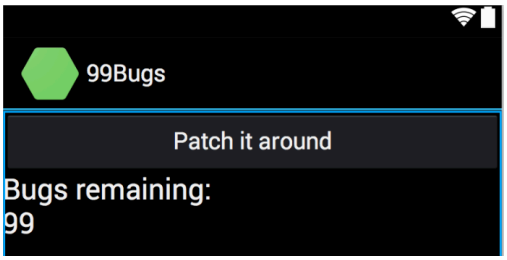
Complete the tutorial, “Hello Multiscreen Apps”, which was also the required reading this week.

Part 2 – Group B: 99 Bugs in the Code (or 99 other things of your choice)

1. Add code to the default MainActivity (I’ll call this activity 1)
   - Add a button
     - Change its button title to "Take one down".
     - Create an Intent that sends the number 1 to activity 2.
     - Add an appropriate event handler to the button.
   - Add a second button
     - Change its button title to "Take two down".
     - Add an appropriate event handler to the button.
     - Create an Intent that sends the number 2 to activity 2. Start Activity 2 using StartActivityForResult
   - Add a TextView and the code needed to display a message from activity 2. Get the message using onActivityResult.



2. Add a second Activity and name it “The code”
   - Add a button and a TextView to the second activity.
   - The text on this button should be "Patch it around".
   - Use an intent to send the message "n little bugs in the code" to activity 1, where n is the number of bugs remaining.
   - Add a button event handler and any other code necessary so that tapping a button subtracts one from the total number of bugs left, and sends the message above to the first activity.



Submission to Moodle

Beta Version

Post the following to the Beta + Code Review Forum:

1) For part 1: A document containing screen-shots of the app with each screen-shot labeled. (Please use .docx or .pdf format.)
2) For part 2: A zip file containing your app's Visual Studio solution folder. (Make your solution smaller by deleting the *obj* and *bin* folders.)
   Or, optionally, a link to a repository containing your solution source code. You can put the link on the same document with the report on your exercise from part 1.
3) A copy of your lab instructions (so the lab partner who reviews your work will know what your requirements were).

Production Version

1. Items 1 and 2 above, but revised as needed.
2. The code review of your work (the one done by your lab partner) with the second column ("Release") completed by you.