## Lab 2 – A multi-screen application

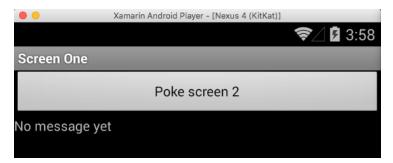
CS235AM, Intermediate Mobile Application Development: Android

This lab will allow you to practice what you learned in the multi-screen tutorial and in class. The main concepts you will apply will be:

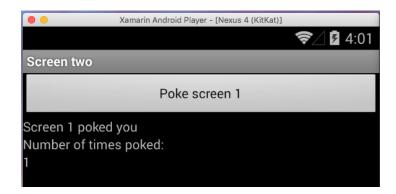
- Starting a new activity or resuming an existing activity using an intent
- · Managing activity launch mode
- Sending information from one activity to another using an intent
- Using activity life-cycle call-back methods: onCreate, onResume, onNewIntent

Assignment for Group A – Poke a Screen (or someone or something of your choice)

- 1. Modify the default Activity (this is activity 1)
  - Modify the existing button
    - o Change the button text to "Poke screen 2".
    - o Add an Intent that sends the message "Screen 1 poked you" to activity 2.
    - o Add an appropriate event handler to the button.
  - Add a TextView and the code necessary to display a message from activity 2. (Get the message from the intent sent from activity 2).

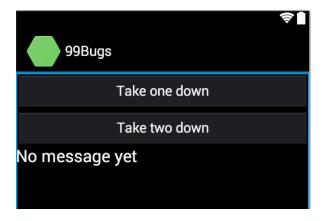


- 2. Add a second Activity
  - Add a TextView that displays messages from screen one.
  - Add a second TextView
    - The TextView will display the number of times this screen has been poked.
    - Add the appropriate code to keep track of the count.
  - Add a button
    - The title on the button should be "Poke screen 1".
    - Use an intent to send activity one the message "You've poked me n times", where n is the number of times this screen has been poked.
    - Add an event handler for the button and any other code necessary so that clicking the button sends the message to the other screen.



## Assignment for Group B – 99 Bottles of Beer (or another thing of your choice)

- 1. Modify the default Activity (this is activity 1)
  - Modify the existing button
    - o Change its button title to "Take one down".
    - Create an Intent that sends the number 1 to activity 2.
    - o Add an appropriate event handler to the button.
  - Add a second button
    - Change its button title to "Take two down".
    - o Create an Intent that sends the number 2 to activity 2.
    - o Add an appropriate event handler to the button.
  - Add a TextView and the code needed to display a message from activity 2.



- 2. Add a second Activity and name it "The wall"
  - Add a button and a TextView to the second activity.
  - The text on this button should be "Pass it around".
  - Use an intent to send the message "n bottles of beer on the wall" to activity 1, where n is the number of bottles remaining.
  - Add an event handler for the button and any other code necessary so that clicking on a button subtracts one from the total number of bottles left, and sends the message above to the first screen.



## Notes for Both Groups

To avoid creating multiple copies of the same activity, add this to the annotation for your activity classes: LaunchMode = Android.Content.PM.LaunchMode.SingleInstance

Zip the solution (after removing the bin and obj folders) and e-mail it to your code-review partner.