CST2335 – Toolbar & Navigation Drawer

Lab 8

Introduction:

The goal of this lab is become familiar with Toolbars and Dialogs in Android. Toolbars are areas that appear at the top of the screen that are similar to menus. You will learn how to customize the messages and appearance of both the toolbar items, and dialog boxes.

References:

1. <https://developer.android.com/training/appbar/index.html>
2. <http://www.vogella.com/tutorials/AndroidActionBar/article.html>

Steps:

1. Create a branch of your software from Lab 7 and call it “Lab 8”.
2. Click on the File menu, and select new -> Activity -> Empty Activity. For the Activity name, type “TestToolbar” and click “Finish”.
3. Add a button to the ProfileActivity page that says “Go to Toolbar page”. When the user clicks that button, they should use startActivityForResult() to go to the TestToolbar activity.
4. Create 3 menu items that show up as icons in the toolbar, and one item that shows up in the overflow menu as text.
5. For the 3 icon items, the ids should be unique for each menu item. Put unique titles for each menu item as well (Choice 1, Choice 2, etc). For the icon, download some icon PNG graphics from: <https://icons8.com/android-icons/>, and copy them into the “res/drawable” folder in Android Studio. In the XML, you don’t need to add the “.png” file ending. The orderInCategory is a number for sorting the icons from smallest to largest. If you want your icon to be on the left side, give it the lowest number.
6. When the user selects on the overflow menu item, make your application show a Toast saying “You clicked on the overflow menu”.
7. For the icon menu items, clicking item 1 should show a toast saying “You clicked on item 1”. Clicking on item 2 should say “You clicked on item 2”. Repeat for item 3 as well.
8. Add a NavigationDrawer that has the following items:
   1. Chat Page
   2. Weather Forecast
   3. Go back to login

When the user clicks on the “Chat page” item, you should start an Intent that goes to your chat page. Clicking on the Weather Forecast item should start an Intent that goes to the Weather Forecast. Clicking on the “Go back to login” item should just finish the TestToolbar activity. However, set the result of the Activity to be 500 so that when you return to profile page, you can add an if() statement in onActivityResult() of ProfileActivity so that if you’re finishing the TestToolbar activity, and the result was 500, then again call finish() so that you transition back to the LoginActivity where you started.

1. Demonstrate your work to the lab professor showing the following parts of your lab work:  **(5 marks total)**
2. Launch the application and navigate to the TestToolbar. Show that your Toolbar appears with 3 icons, and a fourth About item in the settings menu. **+1**
3. Selecting items 1 , 2 and 3 show a toast with the right message. **+1**
4. The user can open a NavigationDrawer **+1**
5. Selecting the different Navigation items go to the proper pages (Chat and weather) **+1**
6. Selecting the Go back to Login finishes the activity, which returns to ProfileActivity, which then immediately finishes and goes to LoginActivity. There must be an if statement in onActivityResult of ProfileActivity. You cannot use an Intent and startActivity to just go directly to the LoginPage **+1**
7. Commit your work with Git, using the commit message “Finished lab 8”, and push the code to Github account.