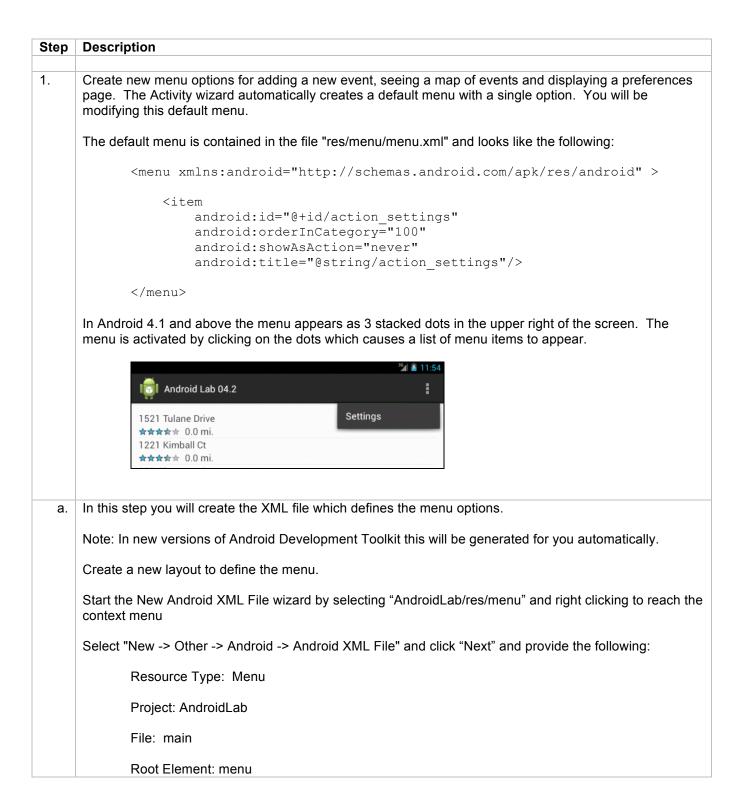
Lab 4.2 – Create a Menu Item

Overview:

In this lab you create a new menu options that can be selected by the user.



Click "Finish" and verify that the following file has been created "/res/menu/main menu.xml"

- b. Add items to the menu. The menu will have options for
 - Adding a new event
 - Showing the events on a map
 - Displaying the preferences page

Edit the file "res/menu/menu.xml" and add "item" elements within the "menu" tag which will declare the menu options. The completed file should look like the following code:

c. The menu layout file references some external strings. Enter string values for each of the menu items.

Open the file "res/values/strings.xml" and add the following:

```
<string name="mi_add_event">Add Event</string>
<string name="mi_show_map">Map</string>
<string name="mi_prefs">Prefs</string>
```

- 2. Modify the main activity to display the menu
 - a. Add (or modify) the code for declaring the menu. Open the file "src/com.garagze/MainActivity.java" and add the following method to the end of the program:

```
@Override
public boolean onCreateOptionsMenu(Menu menu) {
   getMenuInflater().inflate(R.menu.main, menu);
   return true;
}
```

Note: This method may already have been generated for you.

Review the javadoc for the "MenuInflator" class.

```
public void inflate (int menuRes, Menu menu)

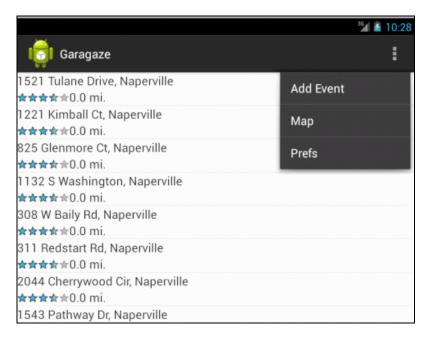
Inflate a menu hierarchy from the specified XML resource. Throws InflateException if there is an error.

Parameters

menuRes Resource ID for an XML layout resource to load (e.g., R.menu.main_activity)

menu The Menu to inflate into. The items and submenus will be added to this Menu.
```

Test the application by running it on the emulator. Press the "Menu" icon (vertical series of 3 squares) to display the menu. The menu options should display. You can click them but no functionality has been added to them yet.



- 3. Modify the activity to respond to menu selections.
 - a. Add the code for responding to the menu selections from the user.

Open the file "src/com.garagze/MainActivity.java" and override the "onOptionsItemSelected" method.

```
@Override
public boolean onOptionsItemSelected(MenuItem item) {
    // Handle item selection
    switch (item.getItemId()) {
    case R.id.mi add event:
        addEvent();
        return true;
    case R.id.mi show map:
       showMap();
       return true;
    case R.id.mi prefs:
        showPrefs();
        return true;
    default:
       return super.onOptionsItemSelected(item);
    }
}
```

- 4. Add code for implementing each of the menu selections
 - a. Add the following methods to MainActivity.java:

```
private void showPrefs() {
     Log.v("MainActivity", "Running showPrefs method.");
}
private void showMap() {
```

```
Log.v("MainActivity ", "Running showMap method.");
}

private void addEvent() {
    Log.v("MainActivity ", "Running addEvent method.");
}
```

Note: Run the app again and select each of the menu options. The application will write a log message when a menu item is clicked by the user. In subsequent labs we'll be adding the functionality for each menu option.