MORNLE 7 ACTION BAR



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- Action bar functions
 - To identify the user location
 - Name of the app/activity
 If no name is given to the activity in AndroidManifest.xml (through android:label attribute)
 the app name is displayed
 - To provide user actions and navigation modes through
 - Action button
 - Appears directly in the action bar with an icon and/or text
 - Action overflow (hidden actions)
 - Contains actions that can't fit in the action bar or aren't important enough



- Automatically adapted for different screen configurations
- Style
 - According to the application style defined in AndroidManifest.xml
 - For <application> or <activity>
 - Through android:theme attribute
 - N.B: Define styles in res/values/styles.xml!
 - E.g,
 - Theme.AppCompat.Light.DarkActionBar



▶ E.g,

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
                                package="com.henallux.myfirstapp" >
                                <application</pre>
                                    android:name=".MyApplication"
                                     android:allowBackup="true"
▼ 📑 res
                                     android:icon="@mipmap/ic launcher"
                                    android:label="@string/app name"
     drawable
                                     android:theme="@style/AppTheme" >
     layout
     menu menu
     mipmap
     values
      dimens.xml (2)
        strings.xml (3)
                                 <resources>
         styles.xml
                                    <style name="AppTheme"
                                                           parent="Theme.AppCompat.Light.DarkActionBar">
                                    </style>
                                 </resources>
```



- Android Studio
 - Action bar included in Blank Activity
- Menu in xml file
 - In res/menu directory

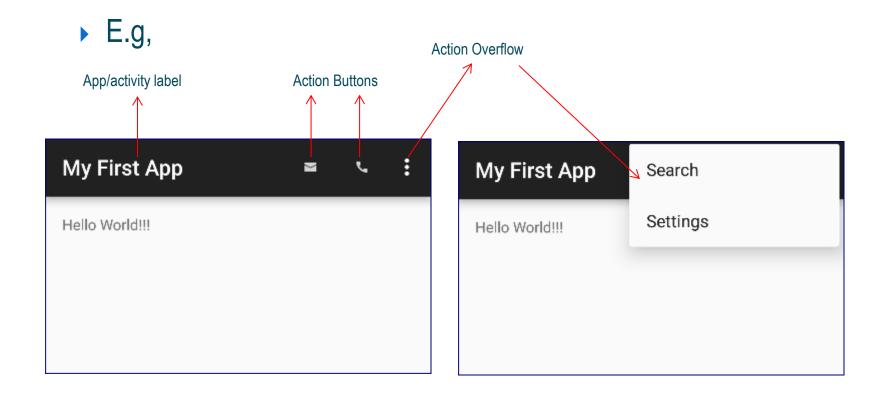
```
    □ res
    □ drawable-hdpi
    □ drawable-ldpi
    □ drawable-mdpi
    □ drawable-xhdpi
    □ drawable-xxhdpi
    □ drawable-xxhdpi
    □ activity_main.xml
    □ main.xml
    □ walues
```

```
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

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

Displays action bar
```

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Adding Action Item

- Define action items in XML menu resource
 - <item> element for each item to include in the action bar
 - title attribute
 - Label of the action item
 - icon attribute
 - Place icons files in appropriate res/drawable-?? directory
 - Use icons provided in the Action Bar Icon Pack
 http://developer.android.com/design/downloads/index.html
 - app:showAsAction attribute
 - never (by default): action item hidden in the action overfow
 - always: item shown as action button in the action bar
 - ifRoom: item appears as an action button when room is available in the action bar



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Adding Action Item

▶ E.g,

```
My First App
<menu xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
                                                                               Hello World!!!
  tools:context="com.henallux.myfirstapp.ChildActivity">
  <item
       android:id="@+id/itemEmailID"
       android:icon="@drawable/ic action email
       android:title="@string/emailTitleID"
      app:showAsAction="always"/>
  <item
       android:id="@+id/itemCallID"
       android:icon="@drawable/ic action call
       android:title="@string/CallTitleID"
      app:showAsAction="always"
  <item
                                                                              My First App >Search
       android:id="@+id/itemSearchID"
       android:icon="@drawable/ic action search"
       android:title="@string/searchTitleID"
                                                                                                 Settings
       app:showAsAction="ifRoom"/>
                                                                               Hello World!!!
  <item android:id="@+id/action settings"</pre>
       android:title="@string/action settings"
       android:orderInCategory="100"
       app:showAsAction="never"
</menu>
```

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Action Item Event

- If press on action item
 - onOptionsItemSelected() callback method is called
 - Use **getItemId()** on the given MenuItem to determine which item is pressed



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Action Item Event

▶ E.g,

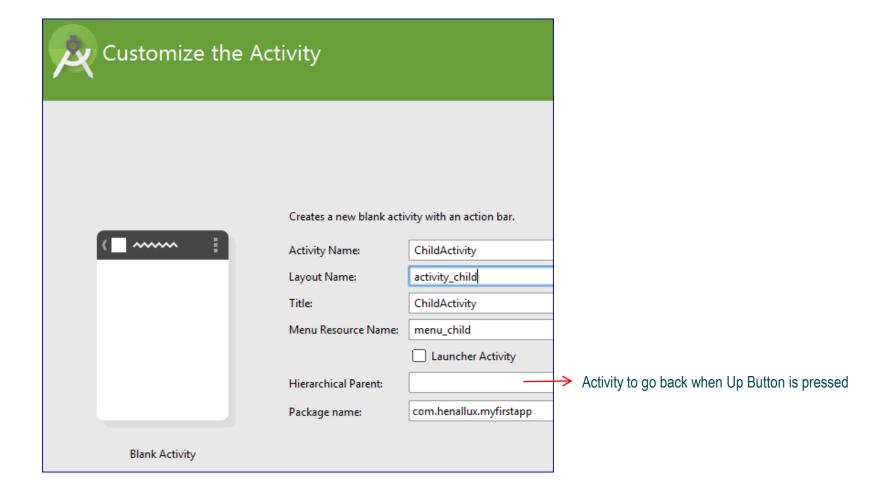
```
@Override
public boolean onOptionsItemSelected(MenuItem item) {
    switch (item.getItemId())
    case R.id.itemEmailID:
        To do when press on Email action item
        return true;
    case R.id.itemCallID:
        To do when press on Phone action item
        return true;
    case R.id.itemSearchID:
         To do when press on Search action item
        return true;
    case R.id.itemSettingsID:
        To do when press on Settings action item
        return true;
    default:
       return super.onOptionsItemSelected(item);
```



- ▶ To navigate to the logical parent screen in the app's hierarchy
- With Android 4.1 (API level 16) and above
 - Declare the parent activity in the AndroidManifest.xml
 - Through android:parentActivityName



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- ▶ E.g,
 - In AndroidManifest.xml





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Webography

- http://developer.android.com/training/basics/actionbar/index.html
- http://developer.android.com/guide/topics/ui/actionbar.html



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