

MODULE 7



ACTION BAR

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Action Bar

► 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

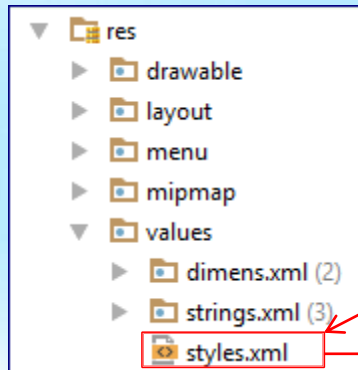
- To provide user actions and navigation modes through
 - Action button
 - Appears directly in the action bar with an icon and/or text
 - Action overflow (hidden actions)
 - Contains actions that can't fit in the action bar or aren't important enough

Action Bar

- ▶ 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**

Action Bar

► E.g,



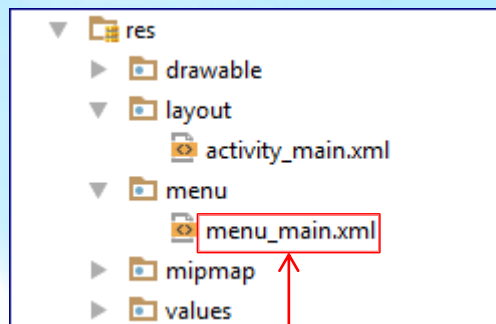
```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.henallux.helloapp">

    <application
        android:name=".Application"
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
```

```
<style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">
    <item name="colorPrimary">@color/colorPrimary</item>
    <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
    <item name="colorAccent">@color/colorAccent</item>
</style>
```

Action Bar

- ▶ Menu in xml file
 - In **res/menu** directory

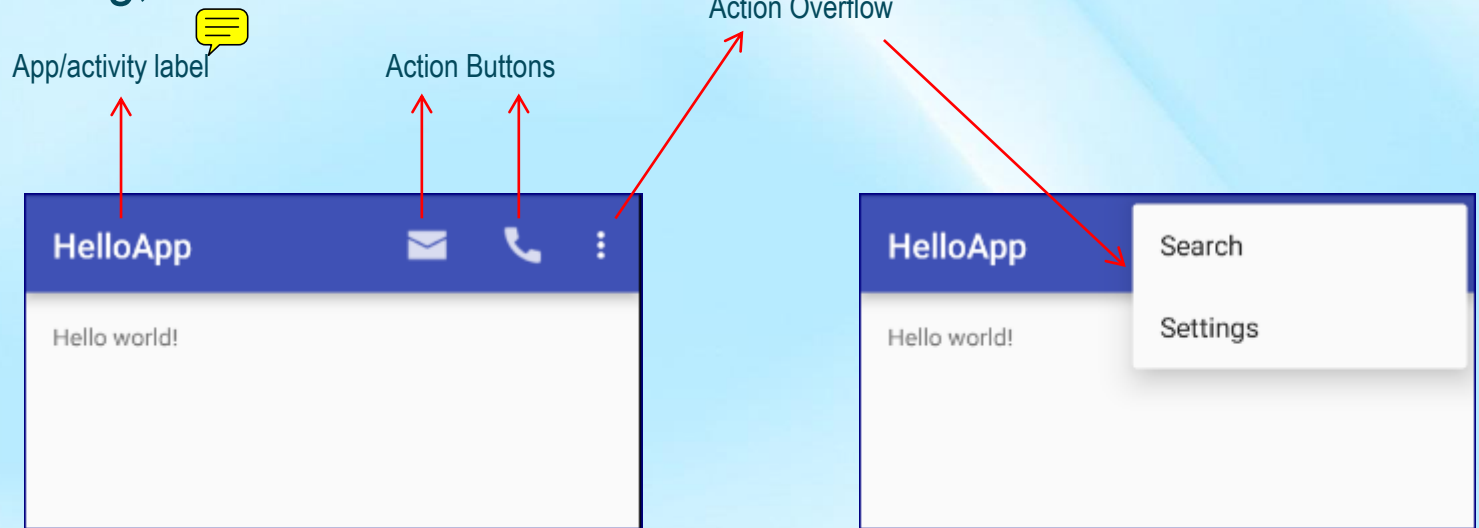


```
public class MainActivity extends AppCompatActivity {  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
    }  
  
    @Override  
    public boolean onCreateOptionsMenu (Menu menu) {  
        this.getMenuInflater().inflate(R.menu.menu_main, menu);  
        return true;  
    }  
}
```

Displays action bar

Action Bar

► E.g,



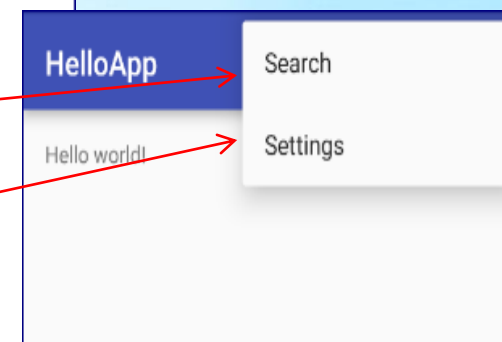
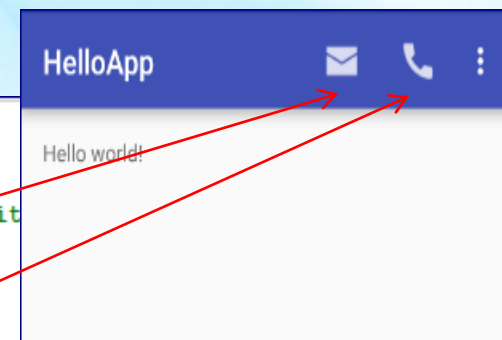
Adding Action Item

- ▶ 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 overflow
 - **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

Adding Action Item

► E.g,

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
      xmlns:app="http://schemas.android.com/apk/res-auto"
      xmlns:tools="http://schemas.android.com/tools" tools:context=".MainActivity"
      >
    <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
        android:id="@+id/itemSearchID"
        android:icon="@drawable/ic_action_search"
        android:title="@string/searchTitleID"
        app:showAsAction="ifRoom"/>
    <item android:id="@+id/action_settings"
        android:title="@string/action_settings"
        android:orderInCategory="100"
        app:showAsAction="never"/>
</menu>
```



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

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);
    }
}
```

Up Button

- ▶ 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***

Up Button

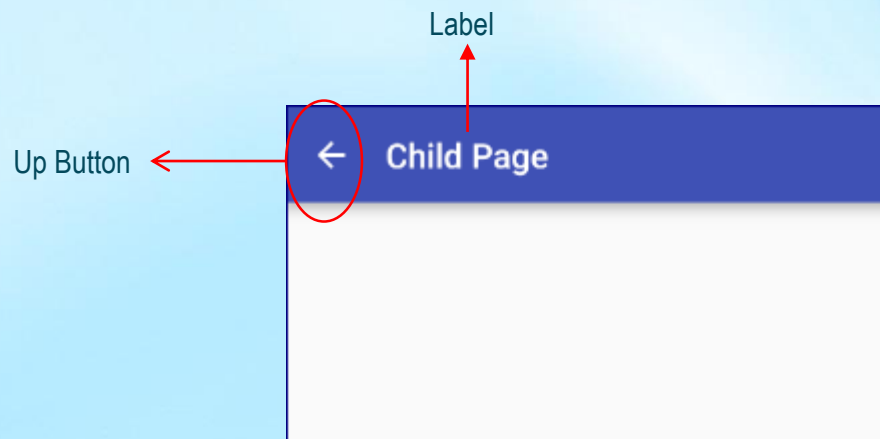
- ▶ E.g,
 - In AndroidManifest.xml

```
<activity android:name=".ChildActivity"  
    android:label="Child Page"  
    android:parentActivityName=".MainActivity">  
</activity>
```

Parent of the child activity ←

→ Name/label of the page

Up Button



Webography

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