

Introduction

Global actions can be displayed in two possible ways: ActionBar and PopupMenu. PopupMenu provides an overflow style menu which is similar to the Spinner and its actions are related to the specific content.

PopupMenu is available in Android 3.0 API level 11 and higher, is designed to create a short contextual menu that is anchored to the view which invokes the menu. Android 4.0 extends the PopupMenu functionality with a couple of useful features.

PopupMenu features with Android 4.0

Under Android 4.0, developers can now inflate the content of a popup menu from an XML file using the inflate (int) method and passing the menu resource ID as a function argument. Earlier, with Android 3.0, developers first needed to inflate the xml by obtaining a MenuInflater reference.

It also comes with a PopupMenu.OnDismissListener that receives a callback when the menu is dismissed.

Inflate PopupMenu view in Android 4.0:

The activities previous to API level 14 Activity shows the popup as shown below,

```
public void showPopup(View v) {  
    PopupMenu popup = new PopupMenu(context, v);  
    MenuInflater inflater = popup.getMenuInflater();  
    inflater.inflate(R.menu.actions, popup.getMenu());  
    popup.show();  
}
```

[Code 1]

In API level 14 and higher, the developer can combine two lines that inflate the PopupMenu with PopupMenu.inflate() as shown below:

```
public void showMenu(View v) {  
  
    PopupMenu popup = new PopupMenu(context, v);  
    popup.inflate(R.menu.actions);  
    popup.show();  
}
```

[Code 2]

PopupMenu introduce OnDismissListener

The PopupMenu in ICS has introduced OnDismissListener, while it can be dismissed by user under two conditions:

- On Selecting the item of menu

- On Touching outside the menu area

The developer can listen for these events by implementing the `PopupMenu.OnDismissListener`.

```
public class Android_PopMenuActivity extends Activity implements OnDismissListener{

    ...

    popupMenu.setOnDismissListener(this);

    ...

    public void onDismiss(PopupMenu menu) {
        //do something here
    }

}
```

[Code 3]

Sample Code

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.menu.app"
    android:versionCode="1"
    android:versionName="1.0" >

    <uses-sdk android:minSdkVersion="14" />

    <application
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name" >
        <activity
            android:name=".Android_PopMenuActivity"
            android:label="@string/app_name" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

popup_menu.xml

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

```

<item
    android:id="@+id/item_new"
    android:title="@string/text_new"
    android:visible="true"
    android:showAsAction="ifRoom|withText"
/>
<item
    android:id="@+id/item_save"
    android:title="@string/text_save"
    android:visible="true"
    android:showAsAction="ifRoom|withText"
/>
<item
    android:id="@+id/item_delete"
    android:title="@string/text_delete"
    android:visible="true"
    android:showAsAction="ifRoom|withText"
/>
</menu>

```

[Code 4]

Android_PopMenuActivity.java

```

package com.menu.app;

import android.app.Activity;
import android.os.Bundle;
import android.view.MenuItem;
import android.view.View;
import android.widget.PopupMenu;
import android.widget.EditText;
import android.widget.PopupMenu.OnDismissListener;
import android.widget.PopupMenu.OnMenuItemClickListener;
import android.widget.Toast;
import android.view.View.OnLongClickListener;

public class Android_PopMenuActivity extends Activity implements OnMenuItemClickListener,
OnDismissListener{
    /** Called when the activity is first created. */
    private EditText editText;
    @Override
    public void onCreate(Bundle savedInstanceState) {

```

```

super.onCreate(savedInstanceState);
setContentView(R.layout.main);
editText = (EditText)findViewById(R.id.edit_text);
editText.setOnLongClickListener(new OnLongClickListener(){
@Override
public boolean onLongClick(View v){
    showPopup(v);
    return true;
}
});
}

```

```

public void showPopup(View v){
    PopupMenu popupMenu = new PopupMenu(this,v);
    popupMenu.setOnMenuItemClickListener(this);
    popupMenu.setOnDismissListener(this);
    popupMenu.inflate(R.menu.popup_menu);
    popupMenu.show();
}

```

```

public void onDismiss(PopupMenu menu) {

    Toast.makeText(this, "onDismiss", Toast.LENGTH_SHORT).show();

}

```

```

public boolean onMenuItemClick(MenuItem item) {

    switch (item.getItemId()){

        case R.id.item_new :
            Toast.makeText(this, "PopupMenu Item new Clicked",
                Toast.LENGTH_SHORT).show();
            return true;
        case R.id.item_save:
            Toast.makeText(this, "PopupMenu Item Save Clicked",
                Toast.LENGTH_SHORT).show();
            return true;
        case R.id.item_delete:

```

```
        Toast.makeText(this, "PopupMenu Item Delete Clicked",  
            Toast.LENGTH_SHORT).show();  
        return true;  
    default:  
        return false;  
    }  
}  
}
```

[Code 5]

ref: <http://developer.samsung.com/android/technical-docs/Pop-Menu-in-Android>