**Android Start Activity that Prints Results**

**Starting Activities and Getting Results**

**The method startActivity(Intent) is used to start a new activity. But sometimes we want to get back results from an activity when it ends. For example, we may start an activity that lets the user input his/her name in an EditText, when it ends, it returns the name. To do this, you call the startActivityForResult(Intent, int) version with a second integer parameter identifying the call. The result will come back through ouronActivityResult(int, int, Intent) method.**

**When an activity ends, it can call setResult(int) to return data back to its parent. It must always supply a result code, which can be the standard results RESULT\_CANCELED, RESULT\_OK, or any custom values starting at RESULT\_FIRST\_USER. In addition, it can optionally return back an Intent containing any additional data it wants. All of this information appears back on the parent’s Activity.onActivityResult(), along with the integer identifier it originally supplied.**

**Note: If a child activity fails for any reason (such as crashing), the parent activity will receive a result with the code RESULT\_CANCELED.**

**Create Project: Activities and Getting Results Example**

**1. Create a project with project name: ActivityResult**

**2. Fill Application Name: ActivityResult**

**3. Fill the Package Name as: mm214.activityresult**

**4. Add the below 2 java files (MainActivity.Java and SecondActivity.Java) in your project’s /src folder.**

**MainActivity.Java**

**This activity is the base activity from which we will start another activity for getting result.**

package com.mm214.activityresult;

import com.example.activityresult.R;

import android.app.Activity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.TextView;

public class MainActivity extends Activity

{

TextView textViewMessage;

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

// get The reference of The textView

textViewMessage=(TextView)findViewById(R.id.textViewMessage);

}

// Method to handle the Click Event on GetMessage Button

public void getMessage(View V)

{

// Create The Intent and Start The Activity to get The message

Intent intentGetMessage=new Intent(this,SecondActivity.class);

startActivityForResult(intentGetMessage, 2);// Activity is started with requestCode 2

}

// Call Back method to get the Message form other Activity

@Override

protected void onActivityResult(int requestCode, int resultCode, Intent data)

{

super.onActivityResult(requestCode, resultCode, data);

// check if the request code is same as what is passed here it is 2

if(requestCode==2)

{

if(null!=data)

{

// fetch the message String

String message=data.getStringExtra("MESSAGE");

// Set the message string in textView

textViewMessage.setText("Message from second Activity: " + message);

}

}

}

}

**SecondActivity.Java**

**This activity will show the user an EditText. Once the user putssome data and presses the Submit button; then the activity will close and send the data to the parent Activity (MainActivity Class) using the API setResult(2,intentMessage).**

package com.mm214.activityresult;

import com.example.activityresult.R;

import android.app.Activity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

public class SecondActivity extends Activity

{

EditText editTextMessage;

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.layout2);

// Get the reference of Edit Text

editTextMessage=(EditText)findViewById(R.id.editTextMessage);

}

public void submitMessage(View V)

{

// get the Entered message

String message=editTextMessage.getText().toString();

Intent intentMessage=new Intent();

// put the message in Intent

intentMessage.putExtra("MESSAGE",message);

// Set The Result in Intent

setResult(2,intentMessage);

// finish The activity

finish();

}

}

**6. Add the below 2 xml layout files (activity\_main.xml and layout2.xml) in your project’s res/layout folder.**

**activity\_main.xml**

**This is used in MainActivity.Java file for showing GUI to start a new Activity for result.**

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:gravity="center\_vertical"

android:orientation="vertical" >

<TextView

android:id="@+id/textViewMessage"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:gravity="center\_horizontal"

android:textColor="#FF0000"

android:textSize="20dp"

android:text="Message" />

<Button

android:id="@+id/button1"

android:layout\_marginTop="20dp"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:gravity="center\_horizontal"

android:text="Get Message"

android:onClick="getMessage" />

</LinearLayout>

**layout2.xml**

**This is used in the SecondActivity.Java file for showing GUI for user input.**

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:gravity="center\_vertical"

android:orientation="vertical" >

<EditText

android:id="@+id/editTextMessage"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:gravity="center\_horizontal"

android:textColor="#FF0000"

android:textSize="20sp"

android:hint="Enter The Message" />

<Button

android:layout\_marginTop="20dp"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:gravity="center\_horizontal"

android:text="Submit Message"

android:onClick="submitMessage" />

</LinearLayout>

**7. Add the below Manifest file (AndroidManifest.xml) in your project’s root folder.**

**AndroidManifest.xml**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.activityresult"

android:versionCode="1"

android:versionName="1.0" >

<uses-sdk

android:minSdkVersion="8"

android:targetSdkVersion="16" />

<application

android:allowBackup="true"

android:icon="@drawable/ic\_launcher"

android:label="@string/app\_name"

android:theme="@style/AppTheme" >

<activity

android:name="com.mm214.activityresult.MainActivity"

android:label="@string/app\_name" >

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

<activity

android:name="com.mm214.activityresult.SecondActivity"/>

</application>

</manifest>

**8. Build and Run the application.**