**Android Intent Example Code with Description**

**There are two types of intents in Android.**

**One is implicit intent and another is explicit intent. We will discuss both Android intents with proper examples here.**

**In the same example we will use 2 buttons (buttons named as ‘Explicit Intent’ and ‘Implicit Intent’) in the main screen (Activity); so when we will click on the first button (Explicit Intent), we will start a new Android Activity using ‘Explicit Intent’. Similarly when we will click on the second button (Implicit Intent), we will start a web browser with a specified URL.**

**Android Intent Example Details**

**Below code snippet will start a new activity using an explicit intent with some extra data. Here you force explicitly to start a new activity called ‘SecondActivity.class’.**

// Create The Explicit Intent and Start The Activity

// here you force explicitly to start SecondActivity.

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

intentExplicit.putExtra("First Value", "This First Value for ActivityTwo"); // optional

intentExplicit.putExtra("Second Value", "This Second Value for ActivityTwo"); //optional

startActivity(intentExplicit);// Activity is started using explicit intent.

**The below code snippet will start a new web browser with a specified URL using implicit intent. Here you request implicitly to Android OS for start a new web browser with a specified URL.**

// Create The Implicit Intent and send request to Browser component

//to start a web browser

//here you request implicitly to Android OS to start a web browser.

Intent intentImplicit = new Intent(Intent.ACTION\_VIEW, Uri.parse("http://www.mm214.com"));

try {

startActivity(intentImplicit);

} catch (ActivityNotFoundException ex) {

//do something here

}

**Note: We can use our intent in verities of ways. For example: Can send data from Android Services and Broadcast Receivers etc. We will discuss regarding the same in another example.**

**Create Project: Android Intent Example**

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

**2. Fill Application Name: IntentExample**

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

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

**• MainActivity.Java**

**This activity is the base activity from which we will have 2 buttons and will use these for different Android Intents.**

package com.mm214.intentexample;

import android.net.Uri;

import android.os.Bundle;

import android.app.Activity;

import android.content.ActivityNotFoundException;

import android.content.Intent;

import android.view.Menu;

import android.view.View;

public class MainActivity extends Activity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

//OnClick listener for ExplicitIntent button

public void onClickExplicitIntent(View V)

{

// Create The Explicit Intent and Start The Activity

// here you force explicitly to start SecondActivity.

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

intentExplicit.putExtra("First Value", "This First Value for ActivityTwo"); // optional

intentExplicit.putExtra("Second Value", "This Second Value for ActivityTwo"); //optional

startActivity(intentExplicit);// Activity is started using explicit intent.

}

//OnClick listener for implicitIntent button

public void onClickImplicitIntent(View V)

{

// Create The Implicit Intent and send request to Browser component

//to start a web browser

//here you request implicitly to Android OS to start a web browser.

Intent intentImplicit = new Intent(Intent.ACTION\_VIEW, Uri.parse("http://www.mm214.com"));

try {

startActivity(intentImplicit);

} catch (ActivityNotFoundException ex) {

//do something here

}

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

// Inflate the menu; this adds items to the action bar if it is present.

getMenuInflater().inflate(R.menu.activity\_main, menu);

return true;

}

}

**SecondActivity.Java**

**This activity is the second activity, which we will start from the first activity using Android intent.**

package com.mm214.intentexample;

import android.os.Bundle;

import android.app.Activity;

import android.view.Menu;

public class SecondActivity extends Activity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_second);

// Get optional values you have sent from MainActivity via intentExplicit.putExtra

String str1=getIntent().getStringExtra("First Value");

String str2 = getIntent().getStringExtra("Second Value");

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

// Inflate the menu; this adds items to the action bar if it is present.

getMenuInflater().inflate(R.menu.activity\_main, menu);

return true;

}

}

**6. Add 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 on the first activity. Here we just added 2 buttons and one TextView for showing some information.**

<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:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:gravity="center\_horizontal"

android:textColor="#FF0000"

android:textSize="20sp"

android:text="Android Intent Example" />

<Button

android:id="@+id/explicit\_intent"

android:layout\_marginTop="20dp"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:gravity="center\_horizontal"

android:text="Explicit Intent"

android:onClick="onClickExplicitIntent" />

<Button

android:id="@+id/implicit\_intent"

android:layout\_marginTop="20dp"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:gravity="center\_horizontal"

android:text="Implicit Intent"

android:onClick="onClickImplicitIntent" />

</LinearLayout>

**activity\_second.xml**

**This is used for showing GUI the second activity. Here we just used a TextView to display some information on the screen.**

<RelativeLayout 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"

tools:context=".MainActivity" >

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerHorizontal="true"

android:layout\_centerVertical="true"

android:text="Your second activity is started using Android Explicit Intent" />

</RelativeLayout>

**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.mm214.intentexample"

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.intentexample.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=".SecondActivity">

</activity>

</application>

</manifest>

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