[NOV](http://androidstraining.blogspot.com/2015/11/acitivity-intent.html%22%20%5Co%20%2218th%20November%202015)

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[ACITIVITY-INTENT](http://androidstraining.blogspot.com/2015/11/acitivity-intent.html)

Android Activity Lifecycle

**Android Activity Lifecycle** is controlled by 7 methods of android.app.Activity class. The android Activity is the subclass of ContextThemeWrapper class.

An activity is the single screen in android. It is like window or frame of Java.

By the help of activity, you can place all your UI components or widgets in a single screen.

The 7 lifecycle method of Activity describes how activity will behave at different states.

Android Activity Lifecycle methods

Let's see the 7 lifecycle methods of android activity.

|  |  |
| --- | --- |
| **Method** | **Description** |
| **onCreate** | called when activity is first created. |
| **onStart** | called when activity is becoming visible to the user. |
| **onResume** | called when activity will start interacting with the user. |
| **onPause** | called when activity is not visible to the user. |
| **onStop** | called when activity is no longer visible to the user. |
| **onRestart** | called after your activity is stopped, prior to start. |
| **onDestroy** | called before the activity is destroyed. |

**Example on Activity  Lifecycle  see below directory structure  :**



**TO check activity   life cycle  follow given code :**

**(1)write code for  MainActivity.java file:**

**package**testing.om.com.activity;

**import**android.os.Bundle;
**import**android.support.v7.app.AppCompatActivity;

**public class**MainActivity **extends**AppCompatActivity {

    @Override
    **protected void**onCreate(Bundle savedInstanceState) {
        **super**.onCreate(savedInstanceState);
        setContentView(R.layout.***activity\_main***);

    }

    **public**MainActivity() {
        **super**();
    }

    @Override
    **protected void**onStop() {
        **super**.onStop();
        System.***out***.println(**"stop"**);
    }

    @Override
    **protected void**onDestroy() {
        **super**.onDestroy();
        System.***out***.println(**"destroy"**);
    }

    @Override
    **protected void**onPause() {
        **super**.onPause();
        System.***out***.println(**"pause"**);
    }

    @Override
    **protected void**onResume() {
        **super**.onResume();
        System.***out***.println(**"Resume"**);
    }

    @Override
    **protected void**onStart() {
        **super**.onStart();
        System.***out***.println(**"start"**);
    }

    @Override
    **protected void**onRestart() {
        **super**.onRestart();
        System.***out***.println(**"Restart"**);
    }

}

(2)write   code for activity\_main.xml file :

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

<**android.support.design.widget.CoordinatorLayout**

**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" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:fitsSystemWindows="true"**

**tools:context=".MainActivity"**>

    <**android.support.design.widget.AppBarLayout android:layout\_height="wrap\_content"**

**android:layout\_width="match\_parent" android:theme="@style/AppTheme.AppBarOverlay"**>

        <**android.support.v7.widget.Toolbar android:id="@+id/toolbar"**

**android:layout\_width="match\_parent" android:layout\_height="?attr/actionBarSize"**

**android:background="?attr/colorPrimary" app:popupTheme="@style/AppTheme.PopupOverlay"** />

    </**android.support.design.widget.AppBarLayout**>

    <**include layout="@layout/content\_main"** />

    <**android.support.design.widget.FloatingActionButton android:id="@+id/fab"**

**android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"**

**android:layout\_gravity="bottom|end" android:layout\_margin="@dimen/fab\_margin"**

**android:src="@android:drawable/ic\_dialog\_email"** />

</**android.support.design.widget.CoordinatorLayout**>

(3)write  code for  content\_main.xml file:

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

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

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

**xmlns:app="http://schemas.android.com/apk/res-auto" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:paddingLeft="@dimen/activity\_horizontal\_margin"**

**android:paddingRight="@dimen/activity\_horizontal\_margin"**

**android:paddingTop="@dimen/activity\_vertical\_margin"**

**android:paddingBottom="@dimen/activity\_vertical\_margin"**

**app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"**

**tools:showIn="@layout/activity\_main" tools:context=".MainActivity"**>

    <**TextView android:text="Hello World!" android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"** />

</**RelativeLayout**>

 **Example on Activity  Lifecycle  see below directory structure  :**



(1)First   write   code   for     “StopWatchActivity.java”    Activity :

**package** com.om.test.stopwatch\_lifecycle;

**import** android.os.Bundle;

**import** android.os.Handler;

**import** android.support.design.widget.FloatingActionButton;

**import** android.support.design.widget.Snackbar;

**import** android.support.v7.app.AppCompatActivity;

**import** android.support.v7.widget.Toolbar;

**import** android.view.View;

**import** android.view.Menu;

**import** android.view.MenuItem;

**import** android.widget.TextView;

**public class** StopWatchActivity **extends** AppCompatActivity {

 **int seconds**=0;

 **boolean running** = **false**;

 **boolean wasRunning** = **false**;

 @Override **protected void** onCreate(Bundle savedInstanceState) {

 **super**.onCreate(savedInstanceState);

 setContentView(R.layout.***activity\_stop\_watch***);

 **if** (savedInstanceState!=**null**)

 {

 **seconds**=savedInstanceState.getInt(**"seconds"**);

 **running**=savedInstanceState.getBoolean(**"isRunning"**);

 }

 Toolbar toolbar = (Toolbar) findViewById(R.id.***toolbar***);

 setSupportActionBar(toolbar);

 FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.***fab***);

 fab.setOnClickListener(**new** View.OnClickListener() {

 @Override **public void** onClick(View view) {

 Snackbar.*make*(view, **"Replace with your own action"**, Snackbar.***LENGTH\_LONG***)

 .setAction(**"Action"**, **null**).show();

 }

 });

 runTimer();

 }

 @Override **public boolean** onCreateOptionsMenu(Menu menu) {

 *// Inflate the menu; this adds items to the action bar if it is present.* getMenuInflater().inflate(R.menu.***menu\_stop\_watch***, menu);

 **return true**;

 }

 @Override **public boolean** onOptionsItemSelected(MenuItem item) {

 *// Handle action bar item clicks here. The action bar will // automatically handle clicks on the Home/Up button, so long // as you specify a parent activity in AndroidManifest.xml.* **int** id = item.getItemId();

 *//noinspection SimplifiableIfStatement* **if** (id == R.id.***action\_settings***) {

 **return true**;

 }

 **return super**.onOptionsItemSelected(item);

 }

 **public void** onClickStart(View view)

 {

 **running** =**true**;

 }

 **public void** onClickStop(View view)

 {

 **running** =**false**;

 }

 **public void** onClickReset(View view)

 {

 **running** =**false**;

 **seconds**=0;

 }

 **public void** runTimer()

 {

 **final** TextView tv = (TextView) findViewById(R.id.***timeDisplay***);

 **final** Handler handler=**new** Handler();

 handler.post(**new** Runnable() {

 @Override **public void** run() {

 **int** hrs = **seconds** / 3600;

 **int** min = (**seconds** % 3600) / 60;

 **int** sec = **seconds** % 60;

 String time = String.*format*(**"%d:%02d:%02d"**, hrs, min, sec);

 tv.setText(time);

 **if** (**running**) {

 **seconds**++;

 }

 handler.postDelayed(**this**,1000);

 }

 });

 }

 @Override **protected void** onSaveInstanceState(Bundle outState) {

 **super**.onSaveInstanceState(outState);

 outState.putInt(**"seconds"**, **seconds**);

 outState.putBoolean(**"isRunning"**, **running**);

 }

 @Override **protected void** onStart() {

 **super**.onStart();

 **if**(**wasRunning**)

 **running**=**true**;

 **else running**= **false**;

 }

 @Override **protected void** onStop() {

 **super**.onStop();

 **wasRunning** = **running**;

 **running**=**false**;

 }

}

(2)write code for activity\_stop\_watch.xml:

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

<**android.support.design.widget.CoordinatorLayout**

**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" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:fitsSystemWindows="true"**

**tools:context=".StopWatchActivity"**>

    <**android.support.design.widget.AppBarLayout android:layout\_height="wrap\_content"**

**android:layout\_width="match\_parent" android:theme="@style/AppTheme.AppBarOverlay"**>

        <**android.support.v7.widget.Toolbar android:id="@+id/toolbar"**

**android:layout\_width="match\_parent" android:layout\_height="?attr/actionBarSize"**

**android:background="?attr/colorPrimary" app:popupTheme="@style/AppTheme.PopupOverlay"** />

    </**android.support.design.widget.AppBarLayout**>

    <**include layout="@layout/content\_stop\_watch"** />

    <**android.support.design.widget.FloatingActionButton android:id="@+id/fab"**

**android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"**

**android:layout\_gravity="bottom|end" android:layout\_margin="@dimen/fab\_margin"**

**android:src="@android:drawable/ic\_dialog\_email"** />

</**android.support.design.widget.CoordinatorLayout**>

(3)write   code for  content\_stop\_watch.xml :

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

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

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

**xmlns:app="http://schemas.android.com/apk/res-auto" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:paddingLeft="@dimen/activity\_horizontal\_margin"**

**android:paddingRight="@dimen/activity\_horizontal\_margin"**

**android:paddingTop="@dimen/activity\_vertical\_margin"**

**android:paddingBottom="@dimen/activity\_vertical\_margin"**

**app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"**

**tools:showIn="@layout/activity\_stop\_watch" tools:context=".StopWatchActivity"**>

    <**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:textAppearance="?android:attr/textAppearanceLarge"**

**android:text=""**

**android:id="@+id/timeDisplay"**

**android:layout\_alignParentTop="true"**

**android:layout\_centerHorizontal="true"**

**android:layout\_marginTop="41dp"**

**android:textSize="92sp"**

/>

    <**Button**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Start"**

**android:id="@+id/start"**

**android:layout\_below="@+id/timeDisplay"**

**android:layout\_centerHorizontal="true"**

**android:onClick="onClickStart"**

**android:layout\_marginTop="45dp"** />

    <**Button**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Stop"**

**android:id="@+id/stop"**

**android:onClick="onClickStop"**

**android:layout\_below="@+id/start"**

**android:layout\_centerHorizontal="true"**

**android:layout\_marginTop="47dp"** />

    <**Button**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Reset"**

**android:onClick="onClickReset"**

**android:id="@+id/reset"**

**android:layout\_below="@+id/stop"**

**android:layout\_centerHorizontal="true"**

**android:layout\_marginTop="56dp"** />

</**RelativeLayout**>

**OUTPUT:**



 **ANDROID INTENT :**
**Android Intent** is the *message* that is passed between components such as activities, content providers, broadcast receivers, services etc.

It is generally used with startActivity() method to invoke activity, broadcast receivers etc.

The **dictionary meaning** of intent is *intention or purpose*. So, it can be described as the intention to do action.

The LabeledIntent is the subclass of android.content.Intent class.

Android intents are mainly used to:

* Start the service
* Launch an activity
* Display a web page
* Display a list of contacts
* Broadcast a message
* Dial a phone call etc.

Types of Android Intents

There are two types of intents in android: implicit and explicit.

1) Implicit Intent

**Implicit Intent** doesn't specifiy the component. In such case, intent provides information of available components provided by the system that is to be invoked.

For example, you may write the following code to view the webpage.

1. Intent intent=**new** Intent(Intent.ACTION\_VIEW);
2. intent.setData(Uri.parse("http://www.vissicomp.com"));
3. startActivity(intent);
4.

2) Explicit Intent

**Explicit Intent** specifies the component. In such case, intent provides the external class to be invoked.

1. Intent i = **new** Intent(getApplicationContext(), ActivityTwo.**class**);
2. startActivity(i);

 **IMPLICIT      INTENT       EXAMPLE   see below Directory Structure :**



(**1)First write code for  implicitinten.java  Activity:**

**package**implicitintent.test.om.com.implicitintent;

**import**android.content.Intent;
**import**android.net.Uri;
**import**android.os.Bundle;
**import**android.support.design.widget.FloatingActionButton;
**import**android.support.design.widget.Snackbar;
**import**android.support.v7.app.AppCompatActivity;
**import**android.support.v7.widget.Toolbar;
**import**android.view.Menu;
**import**android.view.MenuItem;
**import**android.view.View;

**public class**implicitintent **extends**AppCompatActivity {

    @Override
    **protected void**onCreate(Bundle savedInstanceState) {
        **super**.onCreate(savedInstanceState);
        setContentView(R.layout.***activity\_implicitintent***);
        Toolbar toolbar = (Toolbar) findViewById(R.id.***toolbar***);
        setSupportActionBar(toolbar);

        FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.***fab***);
        fab.setOnClickListener(**new**View.OnClickListener() {
            @Override
            **public void**onClick(View view) {
                Snackbar.*make*(view, **"Replace with your own action"**, Snackbar.***LENGTH\_LONG***)
                        .setAction(**"Action"**, **null**).show();
            }
        });

    }

    **public void**onClick(View view)
    {
        Intent intent=**new**Intent(Intent.***ACTION\_VIEW***);
        intent.setData(Uri.*parse*(**"http://www.vissicomp.com"**));
        startActivity(intent);
    }

    @Override
    **public boolean**onCreateOptionsMenu(Menu menu) {
        *// Inflate the menu; this adds items to the action bar if it is present.*getMenuInflater().inflate(R.menu.***menu\_implicitintent***, menu);
        **return true**;
    }

    @Override
    **public boolean**onOptionsItemSelected(MenuItem item) {
        *// Handle action bar item clicks here. The action bar will
        // automatically handle clicks on the Home/Up button, so long
        // as you specify a parent activity in AndroidManifest.xml.***int**id = item.getItemId();

        *//noinspection SimplifiableIfStatement***if**(id == R.id.***action\_settings***) {
            **return true**;
        }

        **return super**.onOptionsItemSelected(item);
    }
}

**(2)Then   write code for   activity\_implicitintent.xml   :**

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

<**android.support.design.widget.CoordinatorLayout**

**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" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:fitsSystemWindows="true"**

**tools:context=".implicitintent"**>

    <**android.support.design.widget.AppBarLayout android:layout\_height="wrap\_content"**

**android:layout\_width="match\_parent" android:theme="@style/AppTheme.AppBarOverlay"**>

        <**android.support.v7.widget.Toolbar android:id="@+id/toolbar"**

**android:layout\_width="match\_parent" android:layout\_height="?attr/actionBarSize"**

**android:background="?attr/colorPrimary" app:popupTheme="@style/AppTheme.PopupOverlay"** />

    </**android.support.design.widget.AppBarLayout**>

    <**include layout="@layout/content\_implicitintent"** />

    <**android.support.design.widget.FloatingActionButton android:id="@+id/fab"**

**android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"**

**android:layout\_gravity="bottom|end" android:layout\_margin="@dimen/fab\_margin"**

**android:src="@android:drawable/ic\_dialog\_email"** />

</**android.support.design.widget.CoordinatorLayout**>

(**3)Then   write code for    content\_implicitintent.xml   :**

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

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

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

**xmlns:app="http://schemas.android.com/apk/res-auto" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:paddingLeft="@dimen/activity\_horizontal\_margin"**

**android:paddingRight="@dimen/activity\_horizontal\_margin"**

**android:paddingTop="@dimen/activity\_vertical\_margin"**

**android:paddingBottom="@dimen/activity\_vertical\_margin"**

**app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"**

**tools:showIn="@layout/activity\_implicitintent" tools:context=".implicitintent"**>

    <**Button**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="vissicomp"**

**android:id="@+id/button"**

**android:onClick="onClick"**

**android:layout\_marginTop="144dp"**

**android:layout\_alignParentTop="true"**

**android:layout\_centerHorizontal="true"** />

</**RelativeLayout**>

OUTPUT:



AFTER CLICK ON VISSICOMP BUTTON :



2) Explicit Intent

**Explicit Intent** specifies the component. In such case, intent provides the external class to be invoked.

1. Intent i = **new** Intent(getApplicationContext(), ActivityTwo.**class**);
2. startActivity(i);

Android Explicit Intent Example:

**Android Explicit intent** specifies the component to be invoked from activity. In other words, we can call another activity in android by explicit intent.

We can also pass the information from one activity to another using explicit intent.

Here, we are going to see an example to call one activity from another and vice-versa.

Android calling one activity from another activity example using Explicit Intent.

Let's see the simple example of android explicit example that calls one activity from another and vice versa. SEE  DIRECTORY STRUCTURE OF EXAMPLE IN GIVEN IMAGE..



**MainActivity.java   :**

**package**com.example.om.mytest;

**import**android.content.Intent;
**import**android.os.Bundle;
**import**android.support.design.widget.FloatingActionButton;
**import**android.support.design.widget.Snackbar;
**import**android.support.v7.app.AppCompatActivity;
**import**android.support.v7.widget.Toolbar;
**import**android.view.View;
**import**android.view.Menu;
**import**android.view.MenuItem;
**import**android.widget.Button;
**import**android.widget.EditText;
**import**android.widget.TextView;

**public class**MainActivity **extends**AppCompatActivity {

    @Override
    **protected void**onCreate(Bundle savedInstanceState) {
        **super**.onCreate(savedInstanceState);
        setContentView(R.layout.***activity\_main***);
        Toolbar toolbar = (Toolbar) findViewById(R.id.***toolbar***);
        setSupportActionBar(toolbar);

        FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.***fab***);
        fab.setOnClickListener(**new**View.OnClickListener() {
            @Override
            **public void**onClick(View view) {
                Snackbar.*make*(view, **"Replace with your own action"**, Snackbar.***LENGTH\_LONG***)
                        .setAction(**"Action"**, **null**).show();
            }
        });

        Button  b1=(Button)findViewById(R.id.***button1***);

        b1.setOnClickListener(**new**View.OnClickListener() {
            @Override
            **public void**onClick(View v)
            {

               **Intent i = new Intent(getApplicationContext(), Main2Activity.class);
                startActivity(i);**

            }
        });

    }

    @Override
    **public boolean**onCreateOptionsMenu(Menu menu) {
        *// Inflate the menu; this adds items to the action bar if it is present.*getMenuInflater().inflate(R.menu.***menu\_main***, menu);
        **return true**;
    }

    @Override
    **public boolean**onOptionsItemSelected(MenuItem item) {
        *// Handle action bar item clicks here. The action bar will
        // automatically handle clicks on the Home/Up button, so long
        // as you specify a parent activity in AndroidManifest.xml.***int**id = item.getItemId();

        *//noinspection SimplifiableIfStatement***if**(id == R.id.***action\_settings***) {
            **return true**;
        }

        **return super**.onOptionsItemSelected(item);
    }
}

**activity\_main.xml:**

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

<**android.support.design.widget.CoordinatorLayout**

**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" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:fitsSystemWindows="true"**

**tools:context=".MainActivity"**>

    <**android.support.design.widget.AppBarLayout android:layout\_height="wrap\_content"**

**android:layout\_width="match\_parent" android:theme="@style/AppTheme.AppBarOverlay"**>

        <**android.support.v7.widget.Toolbar android:id="@+id/toolbar"**

**android:layout\_width="match\_parent" android:layout\_height="?attr/actionBarSize"**

**android:background="?attr/colorPrimary" app:popupTheme="@style/AppTheme.PopupOverlay"** />

    </**android.support.design.widget.AppBarLayout**>

    <**include layout="@layout/content\_main"** />

    <**android.support.design.widget.FloatingActionButton android:id="@+id/fab"**

**android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"**

**android:layout\_gravity="bottom|end" android:layout\_margin="@dimen/fab\_margin"**

**android:src="@android:drawable/ic\_dialog\_email"** />

</**android.support.design.widget.CoordinatorLayout**>

**content\_main.xml:**

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

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

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

**xmlns:app="http://schemas.android.com/apk/res-auto" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:paddingLeft="@dimen/activity\_horizontal\_margin"**

**android:paddingRight="@dimen/activity\_horizontal\_margin"**

**android:paddingTop="@dimen/activity\_vertical\_margin"**

**android:paddingBottom="@dimen/activity\_vertical\_margin"**

**app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"**

**tools:showIn="@layout/activity\_main" tools:context=".MainActivity"**>

    <**Button**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="submit"**

**android:id="@+id/button1"**

**android:layout\_centerVertical="true"**

**android:layout\_toRightOf="@+id/textView"**

**android:layout\_toEndOf="@+id/textView"** />

    </**RelativeLayout**>

**Main2Activity.java:**

**package** com.example.om.mytest;

**import** android.os.Bundle;

**import** android.support.design.widget.FloatingActionButton;

**import** android.support.design.widget.Snackbar;

**import** android.support.v7.app.AppCompatActivity;

**import** android.support.v7.widget.Toolbar;

**import** android.view.View;

**public class** Main2Activity **extends** AppCompatActivity {

    @Override

    **protected void** onCreate(Bundle savedInstanceState) {

        **super**.onCreate(savedInstanceState);

        setContentView(R.layout.***activity\_main2***);

        Toolbar toolbar = (Toolbar) findViewById(R.id.***toolbar***);

        setSupportActionBar(toolbar);

        FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.***fab***);

        fab.setOnClickListener(**new** View.OnClickListener() {

            @Override

            **public void** onClick(View view) {

                Snackbar.*make*(view, **"Replace with your own action"**, Snackbar.***LENGTH\_LONG***)

                        .setAction(**"Action"**, **null**).show();

            }

        });

    }

}

**activity\_main2.xml:**

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

<**android.support.design.widget.CoordinatorLayout**

**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" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:fitsSystemWindows="true"**

**tools:context="com.example.om.mytest.Main2Activity"**>

    <**android.support.design.widget.AppBarLayout android:layout\_height="wrap\_content"**

**android:layout\_width="match\_parent" android:theme="@style/AppTheme.AppBarOverlay"**>

        <**android.support.v7.widget.Toolbar android:id="@+id/toolbar"**

**android:layout\_width="match\_parent" android:layout\_height="?attr/actionBarSize"**

**android:background="?attr/colorPrimary" app:popupTheme="@style/AppTheme.PopupOverlay"** />

    </**android.support.design.widget.AppBarLayout**>

    <**include layout="@layout/content\_main2"** />

    <**android.support.design.widget.FloatingActionButton android:id="@+id/fab"**

**android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"**

**android:layout\_gravity="bottom|end" android:layout\_margin="@dimen/fab\_margin"**

**android:src="@android:drawable/ic\_dialog\_email"** />

</**android.support.design.widget.CoordinatorLayout**>

**content\_main2.xml:**

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

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

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

**xmlns:app="http://schemas.android.com/apk/res-auto" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:paddingLeft="@dimen/activity\_horizontal\_margin"**

**android:paddingRight="@dimen/activity\_horizontal\_margin"**

**android:paddingTop="@dimen/activity\_vertical\_margin"**

**android:paddingBottom="@dimen/activity\_vertical\_margin"**

**app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"**

**tools:showIn="@layout/activity\_main2" tools:context="com.example.om.mytest.Main2Activity"**>

    <**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:textAppearance="?android:attr/textAppearanceLarge"**

**android:text="it is second activity example"**

**android:id="@+id/textView2"**

**android:layout\_alignParentTop="true"**

**android:layout\_centerHorizontal="true"**

**android:layout\_marginTop="119dp"** />

</**RelativeLayout**>

**One more example on Intent to send message from one activity to another activity follow below directory sturcture:**



**First write code for  Intent\_SendMessage  activity which send message to Intent\_ReceiveMessage   activity:**

**(1)see code for  activity    Intent\_SendMessage.java   :**

**package**intentassignment.test.om.com.intent\_sendmessage;

**import**android.content.Intent;
**import**android.os.Bundle;
**import**android.support.design.widget.FloatingActionButton;
**import**android.support.design.widget.Snackbar;
**import**android.support.v7.app.AppCompatActivity;
**import**android.support.v7.widget.Toolbar;
**import**android.view.View;
**import**android.view.Menu;
**import**android.view.MenuItem;
**import**android.widget.EditText;

**public class**Intent\_SendMessage **extends**AppCompatActivity {

    @Override
    **protected void**onCreate(Bundle savedInstanceState) {
        **super**.onCreate(savedInstanceState);
        setContentView(R.layout.***activity\_intent\_\_send\_message***);
        Toolbar toolbar = (Toolbar) findViewById(R.id.***toolbar***);
        setSupportActionBar(toolbar);

        FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.***fab***);
        fab.setOnClickListener(**new**View.OnClickListener() {
            @Override
            **public void**onClick(View view) {
                Snackbar.*make*(view, **"Replace with your own action"**, Snackbar.***LENGTH\_LONG***)
                        .setAction(**"Action"**, **null**).show();
            }
        });
    }

    **public void**sendMessage(View view)
    {
        EditText e = (EditText) findViewById(R.id.***sendMessage***);
        Intent in = **new**Intent(**this**, Intent\_ReceiveMessage.**class**);
        in.putExtra(**"message"**,e.getText().toString());
        startActivity(in);

    }

    @Override
    **public boolean**onCreateOptionsMenu(Menu menu) {
        *// Inflate the menu; this adds items to the action bar if it is present.*getMenuInflater().inflate(R.menu.***menu\_intent\_\_send\_message***, menu);
        **return true**;
    }

    @Override
    **public boolean**onOptionsItemSelected(MenuItem item) {
        *// Handle action bar item clicks here. The action bar will
        // automatically handle clicks on the Home/Up button, so long
        // as you specify a parent activity in AndroidManifest.xml.***int**id = item.getItemId();

        *//noinspection SimplifiableIfStatement***if**(id == R.id.***action\_settings***) {
            **return true**;
        }

        **return super**.onOptionsItemSelected(item);
    }
}

**(2)Then   see code for   activity\_intent\_send\_message.xml   file:**

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

<**android.support.design.widget.CoordinatorLayout**

**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" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:fitsSystemWindows="true"**

**tools:context=".Intent\_SendMessage"**>

    <**android.support.design.widget.AppBarLayout android:layout\_height="wrap\_content"**

**android:layout\_width="match\_parent" android:theme="@style/AppTheme.AppBarOverlay"**>

        <**android.support.v7.widget.Toolbar android:id="@+id/toolbar"**

**android:layout\_width="match\_parent" android:layout\_height="?attr/actionBarSize"**

**android:background="?attr/colorPrimary" app:popupTheme="@style/AppTheme.PopupOverlay"** />

    </**android.support.design.widget.AppBarLayout**>

    <**include layout="@layout/content\_intent\_\_send\_message"** />

    <**android.support.design.widget.FloatingActionButton android:id="@+id/fab"**

**android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"**

**android:layout\_gravity="bottom|end" android:layout\_margin="@dimen/fab\_margin"**

**android:src="@android:drawable/ic\_dialog\_email"** />

</**android.support.design.widget.CoordinatorLayout**>

**(3)then  see code for  content\_intent\_send\_message.xml file:**

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

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

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

**xmlns:app="http://schemas.android.com/apk/res-auto" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:paddingLeft="@dimen/activity\_horizontal\_margin"**

**android:paddingRight="@dimen/activity\_horizontal\_margin"**

**android:paddingTop="@dimen/activity\_vertical\_margin"**

**android:paddingBottom="@dimen/activity\_vertical\_margin"**

**app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"**

**tools:showIn="@layout/activity\_intent\_\_send\_message" tools:context=".Intent\_SendMessage"**>

    <**Button**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Send Message"**

**android:onClick="sendMessage"**

**android:id="@+id/button"**

**android:layout\_below="@+id/sendMessage"**

**android:layout\_centerHorizontal="true"** />

    <**EditText**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:id="@+id/sendMessage"**

**android:hint="Enter message..."**

**android:layout\_alignLeft="@+id/button"**

**android:layout\_alignStart="@+id/button"**

**android:layout\_alignRight="@+id/button"**

**android:layout\_alignEnd="@+id/button"** />

</**RelativeLayout**>

**Now  code for  Intent\_ReceiveMessage  Activity  means second activity which receives  messages  :**

**(1)write code for   Intent\_ReceiveMessage.java :**

**package** intentassignment.test.om.com.intent\_sendmessage;

**import** android.content.Intent;

**import** android.os.Bundle;

**import** android.support.design.widget.FloatingActionButton;

**import** android.support.design.widget.Snackbar;

**import** android.support.v7.app.AppCompatActivity;

**import** android.support.v7.widget.Toolbar;

**import** android.view.View;

**import** android.widget.TextView;

**public class** Intent\_ReceiveMessage **extends** AppCompatActivity {

    @Override

    **protected void** onCreate(Bundle savedInstanceState) {

        **super**.onCreate(savedInstanceState);

        setContentView(R.layout.***activity\_intent\_\_receive\_message***);

        String message=        getIntent().getStringExtra(**"message"**);

        TextView t = (TextView) findViewById(R.id.***textView***);

        t.setText(message);

        Toolbar toolbar = (Toolbar) findViewById(R.id.***toolbar***);

        setSupportActionBar(toolbar);

        FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.***fab***);

        fab.setOnClickListener(**new** View.OnClickListener() {

            @Override

            **public void** onClick(View view) {

                Snackbar.*make*(view, **"Replace with your own action"**, Snackbar.***LENGTH\_LONG***)

                        .setAction(**"Action"**, **null**).show();

            }

        });

    }

    **public void** back(View view)

    {

        Intent i = **new** Intent(**this**,Intent\_SendMessage.**class**);

        startActivity(i);

    }

}

**(2)Now write code for    activity\_intent\_receive\_message.xml   :**

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

<**android.support.design.widget.CoordinatorLayout**

**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" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:fitsSystemWindows="true"**

**tools:context="intentassignment.test.om.com.intent\_sendmessage.Intent\_ReceiveMessage"**>

    <**android.support.design.widget.AppBarLayout android:layout\_height="wrap\_content"**

**android:layout\_width="match\_parent" android:theme="@style/AppTheme.AppBarOverlay"**>

        <**android.support.v7.widget.Toolbar android:id="@+id/toolbar"**

**android:layout\_width="match\_parent" android:layout\_height="?attr/actionBarSize"**

**android:background="?attr/colorPrimary" app:popupTheme="@style/AppTheme.PopupOverlay"** />

    </**android.support.design.widget.AppBarLayout**>

    <**include layout="@layout/content\_intent\_\_receive\_message"** />

    <**android.support.design.widget.FloatingActionButton android:id="@+id/fab"**

**android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"**

**android:layout\_gravity="bottom|end" android:layout\_margin="@dimen/fab\_margin"**

**android:src="@android:drawable/ic\_dialog\_email"** />

</**android.support.design.widget.CoordinatorLayout**>

**(3)Now   write code for  content\_intent\_receive\_message.xml:**

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

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

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

**xmlns:app="http://schemas.android.com/apk/res-auto" android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent" android:paddingLeft="@dimen/activity\_horizontal\_margin"**

**android:paddingRight="@dimen/activity\_horizontal\_margin"**

**android:paddingTop="@dimen/activity\_vertical\_margin"**

**android:paddingBottom="@dimen/activity\_vertical\_margin"**

**app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"**

**tools:showIn="@layout/activity\_intent\_\_receive\_message"**

**tools:context="intentassignment.test.om.com.intent\_sendmessage.Intent\_ReceiveMessage"**>

    <**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:textAppearance="?android:attr/textAppearanceLarge"**

**android:text="Message Received..."**

**android:id="@+id/textView"**

**android:layout\_alignParentTop="true"**

**android:layout\_centerHorizontal="true"**

**android:layout\_marginTop="45dp"** />

    <**Button**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="BACK..."**

**android:onClick="back"**

**android:id="@+id/back"**

**android:layout\_below="@+id/textView"**

**android:layout\_centerHorizontal="true"**

**android:layout\_marginTop="53dp"** />

</**RelativeLayout**>

output:





================================================================================================================================================