

Android FragmentManager and FragmentTransaction Example | Replace Fragment with another Fragment using Button OnClickListener

This page will walk through the android FragmentManager and FragmentTransaction example in which we will replace Fragment with another Fragment using Button OnClickListener. To achieve it, first we get the instance of FragmentTransaction using FragmentManager, then call replace method which will accept view container id and new fragment instance. Finally we commit the fragment transaction.

Layout XMLs

main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<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:orientation="vertical" >
    <Button
        android:id="@+id/button1"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="@string/btn_label1"/>
    <Button
        android:id="@+id/button2"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="@string/btn_label2"/>
    <fragment
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        class="com.concretepage.android.FragmentOne"
        android:id="@+id/output"/>
</LinearLayout>
```

fragment_one.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:gravity="center"
    android:background="#FF0000"
    android:layout_height="match_parent">
    <TextView
```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:textColor="#b0b0ff"
        android:textSize="20sp"
        android:id="@+id/msg1"/>
</LinearLayout>

```

fragment_two.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:gravity="center"
    android:background="#b0b0ff"
    android:layout_height="match_parent">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:textColor="#FF0000"
        android:textSize="20sp"
        android:id="@+id/msg2"/>
</LinearLayout>

```

strings.xml

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">Concrete Page</string>
    <string name="btn_label1"> Fragment One </string>
    <string name="btn_label2"> Fragment Two </string>
</resources>

```

Activity and Fragment Implementations

FragmentOne.java

```

package com.concretepage.android;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;
import com.cp.android.R;

public class FragmentOne extends Fragment {
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup
viewGroup, Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_one,
viewGroup, false);
        TextView output= (TextView)view.findViewById(R.id.msg1);
        output.setText("Fragment One");
        return view;
    }
}

```

```
}
```

FragmentTwo.java

```
package com.concretepage.android;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;
import com.cp.android.R;
public class FragmentTwo extends Fragment {
    @Override
    public View onCreateView(LayoutInflater inflater,ViewGroup
viewGroup, Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_two,
viewGroup, false);
        TextView output= (TextView)view.findViewById(R.id.msg2);
        output.setText("Fragment Two");
        return view;
    }
}
```

MainActivity.java

```
package com.concretepage.android;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.app.FragmentActivity;
import android.support.v4.app.FragmentManager;
import android.support.v4.app.FragmentTransaction;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import com.cp.android.R;
public class MainActivity extends FragmentActivity{
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        OnClickListener listener = new OnClickListener() {
            public void onClick(View view) {
                Fragment fragment = null;
                if(view == findViewById(R.id.button1)){
                    fragment = new FragmentOne();
                } else {
                    fragment = new FragmentTwo();
                }
                FragmentManager manager =
getSupportFragmentManager();
                FragmentTransaction transaction =
manager.beginTransaction();
                transaction.replace(R.id.output, fragment);
                transaction.commit();
            }
        };
        Button btn1 = (Button) findViewById(R.id.button1);
        btn1.setOnClickListener(listener);
        Button btn2 = (Button) findViewById(R.id.button2);
```

```

        btn2.setOnClickListener(listener);
    }
}

```

AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.cp.android"
    android:versionCode="1"
    android:versionName="1.0" >
    <uses-sdk android:minSdkVersion="11" />
    <application
        android:allowBackup="false"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name" >
        <activity
            android:name="com.concretepage.android.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>
    </application>
</manifest>

```

Output

When we run app, we will get two button in UI using which we can change fragment.

