How to use Android ViewPager? Android Mobile Development Apps/Applications Before getting into the example, we should know what is view pager in android. View pager found in Support Library in Android, using view pager we can switch the fragments.

Step 1 - Create a new project in Android Studio, go to File ⇒ New Project and fill all required details to create a new project. Step 2 – Add the following code in build.gradle. apply plugin: 'com.android.application'

android {

compileSdkVersion 28

defaultConfig {

}

This example demonstrates how to use android view pager.

```
applicationId "com.example.andy.myapplication"
     minSdkVersion 19
     targetSdkVersion 28
     versionCode 1
     versionName "1.0"
     testInstrumentationRunner "android.support.test.runner.AndroidJUnitRunner"
   }
  buildTypes {
     release {
        minifyEnabled false
        proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rule
      }
  }
dependencies {
   implementation fileTree(dir: 'libs', include: ['*.jar'])
   implementation 'com.android.support:appcompat-v7:28.0.0'
   implementation 'com.android.support:design:28.0.0'
```

```
implementation 'com.android.support.constraint:constraint-layout:1.1.3'
testImplementation 'junit:junit:4.12'
androidTestImplementation 'com.android.support.test:runner:1.0.2'
androidTestImplementation 'com.android.support.test.espresso:espresso-core:3.0.2'
```

```
android:layout_width = "match_parent"
android:layout_height = "wrap_content"
android:theme = "@style/ThemeOverlay.AppCompat.Dark.ActionBar">
```

android:layout\_width = "match\_parent"

xmlns:app = "http://schemas.android.com/apk/res-auto"

Step 3 – Add the following code to res/layout/activity\_main.xml.

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

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

android:layout\_width = "match\_parent" android:layout\_height = "match\_parent"> <android.support.design.widget.AppBarLayout</p>

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

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

```
android:layout_height = "?attr/actionBarSize"
         android:background = "?attr/colorPrimary"
         app:layout_scrollFlags = "scroll|enterAlways"
         app:popupTheme = "@style/ThemeOverlay.AppCompat.Light" />
      <android.support.design.widget.TabLayout</pre>
         android:id = "@+id/tabs
         android:layout_width = "match parent"
         android:layout_height = "wrap_content"
         app:tabMode = "fixed"
         app:tabGravity = "fill"/>
   </android.support.design.widget.AppBarLayout>
   <android.support.v4.view.ViewPager</pre>
      android:id = "@+id/viewpager"
      android:layout width = "match parent"
      android:layout_height = "match_parent"
      app:layout_behavior = "@string/appbar_scrolling_view_behavior" />
</android.support.design.widget.CoordinatorLayout>
Step 4 – Add the following code to src/MainActivity.java
package com.example.andy.myapplication;
import android.annotation.TargetApi;
import android.os.Build;
import android.os.Bundle;
import android.support.design.widget.TabLayout;
import android.support.v4.app.Fragment;
import android.support.v4.app.FragmentManager;
import android.support.v4.app.FragmentPagerAdapter;
import android.support.v4.view.ViewPager;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.Toolbar;
import java.util.ArrayList;
import java.util.List;
public class MainActivity extends AppCompatActivity {
   private ViewPager viewPager;
   private Toolbar toolbar;
   private TabLayout tabLayout;
   @TargetApi(Build.VERSION_CODES.O)
   @Override
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_main);
      toolbar = (Toolbar) findViewById(R.id.toolbar);
      setSupportActionBar(toolbar);
      getSupportActionBar().setDisplayHomeAsUpEnabled(true);
      tabLayout = findViewById(R.id.tabs);
      viewPager = findViewById(R.id.viewpager);
      ViewPagerAdapter adapter = new ViewPagerAdapter(getSupportFragmentManager());
      adapter.addFragment(new OneFragment(), "ONE");
      adapter.addFragment(new TwoFragment(), "TWO");
      viewPager.setAdapter(adapter);
```

public class OneFragment extends Fragment { @Override public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle save View v= inflater.inflate(R.layout.fragment\_one, container, false); TextView textView=v.findViewById(R.id.text); textView.setText("First Fragment");

tabLayout.setupWithViewPager(viewPager);

super(supportFragmentManager);

public Fragment getItem(int i) {

return mList.get(i);

public int getCount() { return mList.size();

> mList.add(fragment); mTitleList.add(title);

package com.example.andy.myapplication;

import android.support.v4.app.Fragment; import android.view.LayoutInflater;

android:layout\_height="match\_parent">

android:layout\_width="match\_parent" android:layout\_height="wrap\_content"

Step 8 – Add the following code to styles.xml.

android:id="@+id/text"

android:gravity="center" android:textSize="20sp"

/>

</LinearLayout>

</resources>

@Override

@Override

@Override

import android.os.Bundle;

import android.view.View;

return v;

}

}

import android.view.ViewGroup; import android.widget.TextView;

}

}

}

}

}

class ViewPagerAdapter extends FragmentPagerAdapter {

private final List<Fragment> mList = new ArrayList<>(); private final List<String> mTitleList = new ArrayList<>();

public void addFragment(Fragment fragment, String title) {

public CharSequence getPageTitle(int position) {

return mTitleList.get(position);

Step 5 - Add the following code to src/OneFragment.java

public ViewPagerAdapter(FragmentManager supportFragmentManager) {

```
Step 6 – Add the following code to src/TwoFragment.java
package com.example.andy.myapplication;
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;
public class TwoFragment extends Fragment {
   @Override
   public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle save
      View v= inflater.inflate(R.layout.fragment_one, container, false);
      TextView textView=v.findViewById(R.id.text);
      textView.setText("Second Fragment");
      return v;
   }
}
Step 7 – Add the following code to res/layout/fragment_one.xml.
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout</p>
```

xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="matc

```
<resources>
  <!-- Base application theme. -->
   <style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">
     <!-- Customize your theme here. -->
     <item name = "windowNoTitle">true</item>
     <item name = "windowActionBar">false</item>
      <item name="colorPrimary">@color/colorPrimary</item>
      <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
     <item name="colorAccent">@color/colorAccent</item>
   </style>
```

Let's try to run your application. I assume you have connected your actual Android Mobile device with your computer. To run the app from android studio, open one of your project's activity files and click Run 🔝 icon from the toolbar. Select your mobile device as an option and

then check your mobile device which will display your default screen -

13:05 .al 📚

```
\leftarrow
       My Application
        ONE
              First Fragment
```

13:05 .al 📚 2J ⊕ **■**□+  $\leftarrow$ My Application

Second Fragment

TWO