TabLayout is introduced in design support library to implement tabs. Tabs are created using newTab() method of TabLayout class. The title and icon of Tabs are set through setText(int) and setIcon(int)
methods of TabListener interface respectively. Tabs of layout are attached over TabLayout using the method addTab(Tab) method. TabLayout tabLayout = (TabLayout)findViewById(R.id.tabLayout);
tabLayout.addTab(tabLayout.newTab().setText("Tab 1")); tabLayout.addTab(tabLayout.newTab().setText("Tab 2")); tabLayout.addTab(tabLayout.newTab().setText("Tab 3")); We can also add tab item to TabLayout using TabItem of android design widget.
<android.support.design.widget.tabitem< td=""></android.support.design.widget.tabitem<>
Let's create an example of TabLayout using ViewPager and Fragment. File: activity.xml Create an activity.xml file with TabLayout and ViewPager view components.
<pre><?xml version="1.0" encoding="utf-8"?> <android.support.constraint.constraintlayout <="" android:layout_width="match_parent" apk="" http:="" pre="" res-auto"="" schemas.android.com="" xmlns:android="http://schemas.android.com/apk/res/android xmlns:app=" xmlns:tools="http://schemas.android.com/tools"></android.support.constraint.constraintlayout></pre>
android:layout_height="match_parent" tools:context="tablayout.example.com.tablayout.MainActivity"> <android.support.design.widget.tablayout< td=""></android.support.design.widget.tablayout<>
android:id="@+id/tabLayout" android:layout_width="match_parent" android:layout_height="wrap_content" android:background="#1db995">
<pre><android.support.v4.view.viewpager <="" android:id="@+id/viewPager" android:layout_height="455dp" android:layout_width="355dp" pre=""></android.support.v4.view.viewpager></pre>
app:layout_constraintTop_toBottomOf="@+id/tabLayout" tools:layout_editor_absoluteX="8dp" />
File: build.gradle Now gave the dependency library of TabLayout in build.gradle file. implementation 'com.android.support:design:26.1.0'
File: MainActivity.java In this file, we implement two additional listener addOnPageChangeListener(listener) of ViewPager which makes slides the different fragments of tabs and addOnTabSelectedListener(listener) of TabLayout which select the current tab on tab selection.
<pre>package tablayout.example.com.tablayout; import android.support.design.widget.TabLayout; import android.support.v4.view.ViewPager; import android.support.v7.app.AppCompatActivity;</pre>
<pre>import android.os.Bundle; public class MainActivity extends AppCompatActivity { TabLayout tabLayout; ViewPager viewPager;</pre>
<pre>@Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main);</pre>
tabLayout=(TabLayout)findViewById(R.id.tabLayout); viewPager=(ViewPager)findViewById(R.id.viewPager); tabLayout.addTab(tabLayout.newTab().setText("Home")); tabLayout.addTab(tabLayout.newTab().setText("Sport"));
tabLayout.addTab(tabLayout.newTab().setText("Movie")); tabLayout.setTabGravity(TabLayout.GRAVITY_FILL); final MyAdapter adapter = new MyAdapter(this,getSupportFragmentManager(), tabLayout.getTabCount()); viewPager.setAdapter(adapter);
viewPager.addOnPageChangeListener(new TabLayout.TabLayoutOnPageChangeListener(tabLayout)); tabLayout.addOnTabSelectedListener(new TabLayout.OnTabSelectedListener() { @Override
<pre>public void onTabSelected(TabLayout.Tab tab) { viewPager.setCurrentItem(tab.getPosition()); } @Override</pre>
@Override public void onTabUnselected(TabLayout.Tab tab) { } @Override
@Override public void onTabReselected(TabLayout.Tab tab) { } });
} File: MyAdapter.java
package tablayout.example.com.tablayout; import android.content.Context; import android.support.v4.app.FragmentPagerAdapter; import android support v4 app FragmentPagerAdapter;
<pre>import android.support.v4.app.FragmentPagerAdapter; import android.support.v4.app.FragmentManager; public class MyAdapter extends FragmentPagerAdapter { private Context myContext:</pre>
<pre>private Context myContext; int totalTabs; public MyAdapter(Context context, FragmentManager fm, int totalTabs) { super(fm); myContext = context; }</pre>
myContext = context; this.totalTabs = totalTabs; } // this is for fragment tabs
<pre>@Override public Fragment getItem(int position) { switch (position) { case 0: HomeFragment homeFragment = new HomeFragment();</pre>
<pre>return homeFragment; case 1: SportFragment sportFragment = new SportFragment(); return sportFragment; case 2:</pre>
MovieFragment movieFragment = new MovieFragment(); return movieFragment; default: return null; }
} // this counts total number of tabs @Override public int getCount() { return totalTabs;
return totallabs; } Now create different fragment files for all different tabs. File: HomeFragment.java
package tablayout.example.com.tablayout; import android.os.Bundle;
import android.support.v4.app.Fragment; import android.view.LayoutInflater; import android.view.View; import android.view.ViewGroup;
public class HomeFragment extends Fragment { public HomeFragment() { // Required empty public constructor
} @Override public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) { // Inflate the layout for this fragment
// Inflate the layout for this fragment return inflater.inflate(R.layout.fragment_home, container, false); }
File: fragment_home.xml <framelayout <="" td="" xmlns:android="http://schemas.android.com/apk/res/android" xmlns:tools="http://schemas.android.com/tools"></framelayout>
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