***Android GuideBook:***

Activity.main.xml:

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout 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:orientation="vertical"  
 tools:context=".MainActivity">  
  
  
 <TextView  
 android:layout\_gravity="center"  
 android:id="@+id/textView"  
 android:textSize="50sp"  
 android:textStyle="bold"  
 android:textColor="@color/colorAccent"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignEnd="@+id/seekBar"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginTop="106dp"  
 android:layout\_marginEnd="-8dp"  
 android:text="0" />  
  
 <SeekBar  
 android:id="@+id/seekBar"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginStart="25dp"  
 android:layout\_marginTop="263dp" />  
  
  
</LinearLayout>

MainActivtity.java:

package com.example.anabi.randomproject;  
  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.SeekBar;  
import android.widget.TextView;  
  
import static java.lang.Integer.*parseInt*;  
  
public class MainActivity extends AppCompatActivity {  
  
 SeekBar seekBar;  
 TextView textView;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 seekBar = (SeekBar)findViewById(R.id.*seekBar*);  
 textView = (TextView)findViewById(R.id.*textView*);  
  
 seekBar.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {  
 @Override  
 public void onProgressChanged(SeekBar seekBar, int progress, boolean fromUser) {  
  
 textView.setText(progress+"");  
  
 }  
  
 @Override  
 public void onStartTrackingTouch(SeekBar seekBar) {  
  
 }  
  
 @Override  
 public void onStopTrackingTouch(SeekBar seekBar) {  
  
 }  
 });  
  
  
  
 }  
  
}

**EditText: How does it work**

***Activity.xml:***

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout 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:orientation="vertical"  
 tools:context=".MainActivity">  
  
  
 <EditText  
  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="25dp"  
 android:padding="10dp"  
 android:hint="Name.."  
 android:id="@+id/et\_name"  
 android:layout\_width="300dp"  
 android:layout\_height="wrap\_content" />  
  
 <EditText  
  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="25dp"  
 android:padding="10dp"  
 android:hint="Password.."  
 android:id="@+id/et\_pass"  
 android:layout\_width="300dp"  
 android:layout\_height="wrap\_content" />  
  
 <EditText  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="25dp"  
 android:padding="10dp"  
 android:hint="Email.."  
 android:id="@+id/et\_email"  
 android:layout\_width="300dp"  
 android:layout\_height="wrap\_content" />  
  
 <Button  
 android:layout\_marginTop="30dp"  
 android:layout\_gravity="center"  
 android:background="#f2f2f2"  
 android:textColor="@color/colorAccent"  
 android:textStyle="bold"  
 android:textSize="20sp"  
 android:text="Submit"  
 android:id="@+id/btn\_submit"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content" />  
  
  
</LinearLayout>

***MainActivity.java:***

package com.example.anabi.randomproject;  
  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText et\_name,et\_pass,et\_email;  
 Button submit;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
  
 et\_email = (EditText) findViewById(R.id.*et\_email*);  
 et\_name = (EditText) findViewById(R.id.*et\_name*);  
 et\_pass = (EditText) findViewById(R.id.*et\_pass*);  
 submit = (Button)findViewById(R.id.*btn\_submit*);  
  
 submit.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Toast.*makeText*(getApplicationContext(),"Hello "+et\_name.getText().toString()+" \n"+  
 "Your Password: "+et\_pass.getText().toString()+" \n"+  
 "Your Email: "+et\_email.getText().toString(),Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
  
  
  
 }  
  
}

***\*\*Intent Pass DATA from One To another and Reverse\*\****

Activity.main.xml:

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout 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:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/msgTextView"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="10dp"  
 android:text="Message:"  
 android:textStyle="bold"  
 android:textSize="15sp"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content" />  
  
 <EditText  
  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="25dp"  
 android:padding="10dp"  
 android:hint="Name.."  
 android:id="@+id/et\_name"  
 android:layout\_width="300dp"  
 android:layout\_height="wrap\_content" />  
  
 <EditText  
  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="25dp"  
 android:padding="10dp"  
 android:hint="Password.."  
 android:id="@+id/et\_pass"  
 android:layout\_width="300dp"  
 android:layout\_height="wrap\_content" />  
  
 <EditText  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="25dp"  
 android:padding="10dp"  
 android:hint="Email.."  
 android:id="@+id/et\_email"  
 android:layout\_width="300dp"  
 android:layout\_height="wrap\_content" />  
  
 <Button  
 android:layout\_marginTop="30dp"  
 android:layout\_gravity="center"  
 android:background="#f2f2f2"  
 android:textColor="@color/colorAccent"  
 android:textStyle="bold"  
 android:textSize="20sp"  
 android:text="Submit"  
 android:id="@+id/btn\_submit"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content" />  
  
  
</LinearLayout>

Activity 2.main.xml:

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout 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:orientation="vertical"  
 tools:context=".Main2Activity">  
  
 <TextView  
 android:layout\_marginRight="98dp"  
 android:textStyle="bold"  
 android:textColor="#646464"  
 android:textSize="20sp"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="30dp"  
 android:id="@+id/textViewNameId"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Name:" />  
  
 <TextView  
 android:layout\_marginRight="80dp"  
 android:textStyle="bold"  
 android:textColor="#646464"  
 android:textSize="20sp"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="30dp"  
 android:id="@+id/textViewPasswordId"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Password:" />  
  
  
 <TextView  
 android:layout\_marginRight="98dp"  
 android:textStyle="bold"  
 android:textColor="#646464"  
 android:textSize="20sp"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="30dp"  
 android:id="@+id/textViewEmailId"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Email:" />  
  
 <EditText  
  
 android:textStyle="bold"  
 android:textColor="#646464"  
 android:textSize="22sp"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="100dp"  
 android:id="@+id/msgForFirstActivity"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:hint="Message for 1st Activity" />  
  
 <Button  
 android:id="@+id/btn\_send\_first"  
 android:layout\_marginLeft="135dp"  
 android:layout\_marginTop="20dp"  
 android:textStyle="bold"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Send to 1st "/>  
  
  
</LinearLayout>

MainActivity.java:

package com.example.anabi.randomproject;  
  
import android.content.Intent;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
import android.widget.Toast;  
  
  
public class MainActivity extends AppCompatActivity {  
  
 static final int *REQUEST\_CODE* = 20;  
  
 EditText et\_name,et\_pass,et\_email;  
 Button submit;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
  
 et\_email = (EditText) findViewById(R.id.*et\_email*);  
 et\_name = (EditText) findViewById(R.id.*et\_name*);  
 et\_pass = (EditText) findViewById(R.id.*et\_pass*);  
 submit = (Button)findViewById(R.id.*btn\_submit*);  
  
 submit.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
  
 Intent intent = new Intent(MainActivity.this,Main2Activity.class);  
  
 intent.putExtra("Name",et\_name.getText().toString());  
 intent.putExtra("Password",et\_pass.getText().toString());  
 intent.putExtra("Email",et\_email.getText().toString());  
  
 startActivityForResult(intent,*REQUEST\_CODE*);  
  
  
 }  
 });  
  
 }  
  
 @Override  
 protected void onActivityResult(int requestCode, int resultCode, Intent data){  
  
 if((requestCode==*REQUEST\_CODE*)&&(resultCode==*RESULT\_OK*)){  
  
 TextView msgTextView = (TextView)findViewById(R.id.*msgTextView*);  
 msgTextView.append(data.getExtras().getString("Message"));  
  
 }  
  
  
 }  
  
  
  
}

MainActivity2.java:

package com.example.anabi.randomproject;  
  
import android.content.Intent;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class Main2Activity extends AppCompatActivity {  
  
 TextView nameTextView,passTextView,emailTextView;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main2*);  
  
 nameTextView = (TextView) findViewById(R.id.*textViewNameId*);  
 passTextView = (TextView) findViewById(R.id.*textViewPasswordId*);  
 emailTextView = (TextView) findViewById(R.id.*textViewEmailId*);  
  
  
 Button msgButton = (Button)findViewById(R.id.*btn\_send\_first*);  
 msgButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 finish();  
 }  
 });  
  
  
  
  
  
  
 Bundle bundle = getIntent().getExtras();  
 nameTextView.append(bundle.getString("Name"));  
 passTextView.append(bundle.getString("Password"));  
 emailTextView.append(bundle.getString("Email"));  
  
  
 }  
  
 @Override  
 public void finish(){  
  
 Intent intent2ndActivity = new Intent();  
 EditText msgfrom2ndto1st = (EditText) findViewById(R.id.*msgForFirstActivity*);  
 intent2ndActivity.putExtra("Message", msgfrom2ndto1st.getText().toString());  
 setResult(*RESULT\_OK*,intent2ndActivity);  
  
 super.finish();  
  
  
 }  
  
  
}

***\*\*\* \*\*\*\*TAB\_LAYOUT\_ ICON STYLE AND SCROLLABLE\*\*\*\*\*\*\_\_\_\_\_***

*AcitvityMain.xml:*

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout 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:orientation="vertical"  
 tools:context=".MainActivity">  
  
  
 <android.support.v7.widget.Toolbar  
 android:id="@+id/toolbar"  
 android:background="@color/colorPrimary"  
 android:layout\_width="match\_parent"  
 android:minHeight="?attr/actionBarSize"  
 android:layout\_height="wrap\_content"  
 android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"  
 app:popupTheme="@style/ThemeOverlay.AppCompat.Light">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Sliding Tabs"  
 android:textColor="#ffd4e3"/>  
  
 </android.support.v7.widget.Toolbar>  
  
 <android.support.design.widget.TabLayout  
 android:id="@+id/tab"  
 android:background="@color/colorPrimary"  
 android:minHeight="?attr/actionBarSize"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 app:tabMode="scrollable"  
 app:tabSelectedTextColor="#ffd4e3"  
 android:theme="@style/ThemeOverlay.AppCompat">  
  
 </android.support.design.widget.TabLayout>  
   
 <android.support.v4.view.ViewPager  
 android:id="@+id/pager"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content">  
  
 </android.support.v4.view.ViewPager>  
  
</LinearLayout>

*Fragment\_tab1.xml:*

<?xml version="1.0" encoding="utf-8"?>  
<FrameLayout 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=".Tab1">  
  
 <!-- *TODO: Update blank fragment layout* -->  
 <TextView  
 android:layout\_gravity="center"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Tab1"  
 android:textStyle="bold"  
 android:textSize="40sp"  
 />  
  
</FrameLayout>

*Fragment\_tab2.xml:*

<?xml version="1.0" encoding="utf-8"?>  
<FrameLayout 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=".Tab2">  
  
 <!-- *TODO: Update blank fragment layout* -->  
 <TextView  
 android:layout\_gravity="center"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Tab2"  
 android:textStyle="bold"  
 android:textSize="40sp" />  
  
</FrameLayout>

*Fragment\_tab3.xml:*

<?xml version="1.0" encoding="utf-8"?>  
<FrameLayout 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=".Tab3">  
  
 <!-- *TODO: Update blank fragment layout* -->  
 <TextView  
 android:layout\_gravity="center"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Tab3"  
 android:textStyle="bold"  
 android:textSize="40sp" />  
  
</FrameLayout>

*Tab1.fragment:*

package com.example.anabi.iconstyletabviewex;  
  
  
import android.os.Bundle;  
import android.support.v4.app.Fragment;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
  
  
*/\*\*  
 \* A simple {****@link*** *Fragment} subclass.  
 \*/*public class Tab1 extends Fragment {  
  
  
 public Tab1() {  
 // Required empty public constructor  
 }  
  
  
 @Override  
 public View onCreateView(LayoutInflater inflater, ViewGroup container,  
 Bundle savedInstanceState) {  
 // Inflate the layout for this fragment  
 return inflater.inflate(R.layout.*fragment\_tab1*, container, false);  
 }  
  
 public interface OnFragmentInteractionListener {  
 }  
}

*Tab2.Fragment:*

package com.example.anabi.iconstyletabviewex;  
  
  
import android.os.Bundle;  
import android.support.v4.app.Fragment;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
  
  
*/\*\*  
 \* A simple {****@link*** *Fragment} subclass.  
 \*/*public class Tab2 extends Fragment {  
  
  
 public Tab2() {  
 // Required empty public constructor  
 }  
  
  
 @Override  
 public View onCreateView(LayoutInflater inflater, ViewGroup container,  
 Bundle savedInstanceState) {  
 // Inflate the layout for this fragment  
 return inflater.inflate(R.layout.*fragment\_tab2*, container, false);  
 }  
  
 public interface OnFragmentInteractionListener {  
 }  
}

*Tab\_3.Fragemnt:*

package com.example.anabi.iconstyletabviewex;  
  
  
import android.os.Bundle;  
import android.support.v4.app.Fragment;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
  
  
*/\*\*  
 \* A simple {****@link*** *Fragment} subclass.  
 \*/*public class Tab3 extends Fragment {  
  
  
 public Tab3() {  
 // Required empty public constructor  
 }  
  
  
 @Override  
 public View onCreateView(LayoutInflater inflater, ViewGroup container,  
 Bundle savedInstanceState) {  
 // Inflate the layout for this fragment  
 return inflater.inflate(R.layout.*fragment\_tab3*, container, false);  
 }  
  
 public interface OnFragmentInteractionListener {  
 }  
}

*PagerAdapter.java:*

package com.example.anabi.iconstyletabviewex;  
  
import android.support.v4.app.Fragment;  
import android.support.v4.app.FragmentManager;  
import android.support.v4.app.FragmentStatePagerAdapter;  
  
public class PagerAdapter extends FragmentStatePagerAdapter {  
  
 int mNoOfTabs;  
  
 public PagerAdapter(FragmentManager fm, int NumberOfTabs) {  
 super(fm);  
 this.mNoOfTabs = NumberOfTabs;  
 }  
  
  
 @Override  
 public Fragment getItem(int i) {  
  
 switch (i){  
  
 case 0:  
 Tab1 tab1 = new Tab1();  
 return tab1;  
  
 case 1:  
 Tab2 tab2 = new Tab2();  
 return tab2;  
  
 case 2:  
 Tab3 tab3 = new Tab3();  
 return tab3;  
  
 }  
 return null;  
 }  
  
  
 @Override  
 public int getCount() {  
 return mNoOfTabs;  
 }  
}

*MainActivity.java:*

package com.example.anabi.iconstyletabviewex;  
  
  
import android.support.design.widget.TabLayout;  
import android.support.v4.view.ViewPager;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
  
  
public class MainActivity extends AppCompatActivity implements Tab1.OnFragmentInteractionListener, Tab2.OnFragmentInteractionListener, Tab3.OnFragmentInteractionListener {  
   
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 TabLayout tab = (TabLayout) findViewById(R.id.*tab*);  
 tab.addTab(tab.newTab().setIcon(R.drawable.*ic\_home*));  
 tab.addTab(tab.newTab().setIcon(R.drawable.*ic\_favorite*));  
 tab.addTab(tab.newTab().setIcon(R.drawable.*ic\_gamepad*));  
   
  
 final ViewPager viewPager = (ViewPager)findViewById(R.id.*pager*);  
 final PagerAdapter adapter = new PagerAdapter(getSupportFragmentManager(),tab.getTabCount());  
 viewPager.setAdapter(adapter);  
 viewPager.setOnPageChangeListener(new TabLayout.TabLayoutOnPageChangeListener(tab));  
 tab.setOnTabSelectedListener(new TabLayout.OnTabSelectedListener() {  
 @Override  
 public void onTabSelected(TabLayout.Tab tab) {  
  
 viewPager.setCurrentItem(tab.getPosition());  
 }  
  
 @Override  
 public void onTabUnselected(TabLayout.Tab tab) {  
  
 }  
  
 @Override  
 public void onTabReselected(TabLayout.Tab tab) {  
  
 }  
 });  
   
  
}  
}

***Spinner And how it performs:***

*activityMain.xml:*

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout 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:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <Spinner  
 android:layout\_marginTop="30dp"  
 android:layout\_gravity="center"  
 android:id="@+id/spinner"  
 android:layout\_width="60dp"  
 android:backgroundTint="@color/colorAccent"  
 android:layout\_height="wrap\_content"/>  
  
 <ImageView  
 android:layout\_gravity="center"  
 android:layout\_marginTop="250dp"  
 android:id="@+id/image"  
 android:layout\_width="200dp"  
 android:layout\_height="100dp" />  
</LinearLayout>

*Array.xml:::::::::::*

<?xml version="1.0" encoding="utf-8"?>  
<resources>  
  
 <array name="image\_list">  
  
  
 <item>Image 1</item>  
 <item>Image 2</item>  
 <item>Image 3</item>  
 <item>Image 4</item>  
  
  
 </array>  
  
  
</resources>

*MainActivity.Java:::::*

package com.example.anabi.mutipurposelistfragspin;  
  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.ArrayAdapter;  
import android.widget.ImageView;  
import android.widget.Spinner;  
  
public class MainActivity extends AppCompatActivity {  
  
 Spinner spinner;  
 ImageView imageView;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 imageView = (ImageView) findViewById(R.id.*image*);  
  
 spinner = (Spinner)findViewById(R.id.*spinner*);  
  
 ArrayAdapter<CharSequence> myArrayAdapter = ArrayAdapter.*createFromResource*(this,R.array.*image\_list*,android.R.layout.*simple\_spinner\_item*);  
  
 myArrayAdapter.setDropDownViewResource(android.R.layout.*simple\_spinner\_dropdown\_item*);  
  
 spinner.setAdapter(myArrayAdapter);  
  
  
 spinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {  
 @Override  
 public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {  
  
  
 switch (position){  
  
  
 case 0:  
 imageView.setImageResource(R.drawable.*insta*);  
 break;  
  
 case 1:  
 imageView.setImageResource(R.drawable.*twit*);  
 break;  
  
 case 2:  
 imageView.setImageResource(R.drawable.*youtub*);  
 break;  
  
 case 3:  
 imageView.setImageResource(R.drawable.*fb*);  
  
  
 }  
  
 }  
  
 @Override  
 public void onNothingSelected(AdapterView<?> parent) {  
  
 }  
 });  
 }  
}

***Beautiful Expandable Floating Action Button:***

activityMain.xml:

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout 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:background="@drawable/back"  
 tools:context=".MainActivity">  
  
  
 <com.wangjie.rapidfloatingactionbutton.RapidFloatingActionLayout  
 xmlns:rfal="http://schemas.android.com/apk/res-auto"  
 android:id="@+id/activity\_main\_rfal"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 rfal:rfal\_frame\_color="#ffffff"  
 rfal:rfal\_frame\_alpha="0.7"  
 >  
 <com.wangjie.rapidfloatingactionbutton.RapidFloatingActionButton  
 xmlns:rfab="http://schemas.android.com/apk/res-auto"  
 android:id="@+id/activity\_main\_rfab"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="15dp"  
 android:layout\_marginBottom="15dp"  
 android:padding="8dp"  
 rfab:rfab\_size="normal"  
 rfab:rfab\_drawable="@drawable/rfab\_\_drawable\_rfab\_default"  
 rfab:rfab\_color\_normal="#f20085"  
 rfab:rfab\_color\_pressed="#263238"  
 rfab:rfab\_shadow\_radius="7dp"  
 rfab:rfab\_shadow\_color="#464646"  
 rfab:rfab\_shadow\_dx="0dp"  
 rfab:rfab\_shadow\_dy="5dp"  
 />  
 </com.wangjie.rapidfloatingactionbutton.RapidFloatingActionLayout>  
  
  
  
  
</RelativeLayout>

MainActivity.java::::::::

package com.example.anabi.teleprompterapp;  
  
import android.graphics.Color;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.widget.Toast;  
  
import com.wangjie.rapidfloatingactionbutton.RapidFloatingActionButton;  
import com.wangjie.rapidfloatingactionbutton.RapidFloatingActionHelper;  
import com.wangjie.rapidfloatingactionbutton.RapidFloatingActionLayout;  
import com.wangjie.rapidfloatingactionbutton.contentimpl.labellist.RFACLabelItem;  
import com.wangjie.rapidfloatingactionbutton.contentimpl.labellist.RapidFloatingActionContentLabelList;  
  
import java.util.ArrayList;  
import java.util.List;  
  
public class MainActivity extends AppCompatActivity implements RapidFloatingActionContentLabelList.OnRapidFloatingActionContentLabelListListener {  
  
 private RapidFloatingActionLayout rfaLayout;  
 private RapidFloatingActionButton rfaButton;  
 private RapidFloatingActionHelper rfaHelper;  
 private RapidFloatingActionHelper rfabHelper;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 rfaLayout = findViewById(R.id.*activity\_main\_rfal*);  
 rfaButton = findViewById(R.id.*activity\_main\_rfab*);  
  
 setUpExpandableFloatingActiobButton();  
 }  
  
  
 private void setUpExpandableFloatingActiobButton(){  
  
 RapidFloatingActionContentLabelList rfaContent = new RapidFloatingActionContentLabelList(getApplicationContext());  
 rfaContent.setOnRapidFloatingActionContentLabelListListener(this);  
 List<RFACLabelItem> items = new ArrayList<>();  
 items.add(new RFACLabelItem<Integer>()  
 .setLabel("Write Script")  
 .setLabelSizeSp(15)  
 .setResId(R.drawable.*ic\_keyboard\_black\_24dp*)  
 .setIconNormalColor(0xff4e342e)  
 .setIconPressedColor(0xff3e2723)  
 .setLabelSizeSp(14)  
 .setWrapper(0)  
 );  
 items.add(new RFACLabelItem<Integer>()  
 .setLabel("Import Script")  
 .setResId(R.drawable.*ic\_import\_export\_black\_24dp*)  
 .setIconNormalColor(0xff4e342e)  
 .setIconPressedColor(0xff3e2723)  
 .setLabelSizeSp(14)  
 .setWrapper(1)  
 );  
  
 rfaContent  
 .setItems(items)  
 .setIconShadowColor(0xff888888)  
  
 ;  
  
  
 rfabHelper = new RapidFloatingActionHelper(  
 getApplicationContext(),  
 rfaLayout,  
 rfaButton,  
 rfaContent  
 ).build();  
  
  
  
  
  
 }  
  
 @Override  
 public void onRFACItemLabelClick(int position, RFACLabelItem item) {  
  
 writeOrImportScript(position);  
 }  
  
 @Override  
 public void onRFACItemIconClick(int position, RFACLabelItem item) {  
  
 writeOrImportScript(position);  
  
  
 }  
  
 private void writeOrImportScript(int position){  
  
  
 if(position == 0){  
  
 Toast.*makeText*(getApplicationContext(),"Writing the script",Toast.*LENGTH\_SHORT*).show();  
 }  
 else{  
 Toast.*makeText*(getApplicationContext(),"Importing the script",Toast.*LENGTH\_SHORT*).show();  
 }  
  
  
 }  
}

Build.GradleFile::::::::

apply plugin: 'com.android.application'  
  
android {  
 compileSdkVersion 28  
 defaultConfig {  
 applicationId "com.example.anabi.teleprompterapp"  
 minSdkVersion 22  
 targetSdkVersion 28  
 versionCode 1  
 versionName "1.0"  
 testInstrumentationRunner "android.support.test.runner.AndroidJUnitRunner"  
 }  
 buildTypes {  
 release {  
 minifyEnabled false  
 proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'  
 }  
 }  
}  
  
dependencies {  
 implementation fileTree(dir: 'libs', include: ['\*.jar'])  
 implementation 'com.android.support:appcompat-v7:28.0.0'  
 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'  
 implementation 'com.github.wangjiegulu:rfab:2.0.0'  
}

**Sqlite-DataBase Demo Udemy:**

try {  
  
  
 SQLiteDatabase myDatabase = this.openOrCreateDatabase("Users", *MODE\_PRIVATE*, null);  
  
 myDatabase.execSQL("CREATE TABLE IF NOT EXISTS users (name VARCHAR, age INT(3))");  
  
 myDatabase.execSQL("INSERT INTO users (name,age) VALUES ('Rob',34)");  
  
 myDatabase.execSQL("INSERT INTO users (name,age) VALUES ('Tommy', 4)");  
  
 Cursor c = myDatabase.rawQuery("SELECT \* FROM users",null);  
  
 int nameIndex = c.getColumnIndex("name");  
 int ageIndex = c.getColumnIndex("age");  
  
 c.moveToFirst();  
  
 while(c!=null){  
  
 Log.*i*("name",c.getString(nameIndex));  
 Log.*i*("age", Integer.*toString*(c.getInt(ageIndex)));  
  
 c.moveToNext();  
  
 }  
  
  
  
  
  
} catch (Exception e) {  
  
  
 e.printStackTrace();  
  
}

***SQLITE DATABASE BASICS:***

**Activity.xml:**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout 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:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <EditText  
  
 android:id="@+id/editTextTask"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Task Here.."  
 android:textAlignment="center"  
 android:layout\_marginTop="20dp"  
 android:padding="10dp"/>  
  
 <Button  
 android:onClick="addButtonClicked"  
 android:textSize="18sp"  
 android:layout\_margin="10dp"  
 android:textColor="#fff"  
 android:backgroundTint="@color/colorAccent"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Add Task"  
 android:id="@+id/buttonAddTask"/>  
  
 <Button  
 android:onClick="removeButtonCliked"  
 android:textSize="18sp"  
 android:layout\_margin="10dp"  
 android:textColor="#fff"  
 android:backgroundTint="@color/colorAccent"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Remove Task"  
 android:id="@+id/buttonRemoveTask"/>  
  
 <TextView  
 android:id="@+id/textViewTask"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textAlignment="center"  
 android:textSize="20sp"  
 android:hint="No Tasks added Yet!"  
 android:layout\_marginTop="20dp"/>  
  
</LinearLayout>

**Tasks.java:**

package com.example.anabi.sqlitedatabasebasicforfinalproject;  
  
public class Tasks {  
  
 private int \_id;  
 private String \_taskname;  
  
 public void Tasks(){  
  
 }  
  
 public Tasks(String taskname){  
 this.\_taskname = taskname;  
 }  
  
 public int get\_id() {  
 return \_id;  
 }  
  
 public String get\_taskname() {  
 return \_taskname;  
 }  
  
 public void set\_id(int \_id) {  
 this.\_id = \_id;  
 }  
  
 public void set\_taskname(String \_taskname) {  
 this.\_taskname = \_taskname;  
 }  
}

**DatabaseHelper.java**

package com.example.anabi.sqlitedatabasebasicforfinalproject;  
  
import android.content.ContentValues;  
import android.content.Context;  
import android.database.Cursor;  
import android.database.DatabaseErrorHandler;  
import android.database.sqlite.SQLiteDatabase;  
import android.database.sqlite.SQLiteOpenHelper;  
  
public class MyDatabaseHelper extends SQLiteOpenHelper {  
  
 private static final int *DATABASE\_VERSION* = 1;  
 private static final String *DATABASE\_NAME* = "tasks.db";  
 private static final String *TABLE\_TASKS* = "tasks";  
 private static final String *COLUMN\_ID* = "\_id";  
 private static final String *COLUMN\_TASKNAME* = "taskname";  
  
 public MyDatabaseHelper(Context context, String name, SQLiteDatabase.CursorFactory factory, int version) {  
 super(context, *DATABASE\_NAME*, factory, *DATABASE\_VERSION*);  
 }  
  
 @Override  
 public void onCreate(SQLiteDatabase db) {  
  
 String query = " CREATE TABLE " + *TABLE\_TASKS* + " ( " + *COLUMN\_ID* + " INTEGER PRIMARY KEY AUTOINCREMENT, " +  
 *COLUMN\_TASKNAME* + " TEXT " + ");";  
  
 db.execSQL(query);  
  
 }  
  
  
 // Adding Tasks to Table  
  
 public void addTasks(Tasks tasks){  
  
 ContentValues values = new ContentValues();  
 values.put(*COLUMN\_TASKNAME*,tasks.get\_taskname());  
 SQLiteDatabase db = getWritableDatabase();  
 db.insert(*TABLE\_TASKS*,null,values);  
 db.close();  
  
 }  
  
  
 //Remove Data from Tasks Table  
  
 public void removeTasks(String taskname){  
  
 SQLiteDatabase db = getWritableDatabase();  
 db.execSQL(" DELETE FROM " + *TABLE\_TASKS* + " WHERE " + *COLUMN\_TASKNAME* + "=\"" + taskname + "\";");  
  
 }  
  
  
 public String databasetostring(){  
  
 String dbstring = "";  
 SQLiteDatabase db = getWritableDatabase();  
 String query = "SELECT \* FROM " + *TABLE\_TASKS* + " WHERE 1";  
  
 Cursor c = db.rawQuery(query,null);  
 c.moveToFirst();  
  
 while(!c.isAfterLast()){  
 if(c.getString(c.getColumnIndex("taskname"))!=null){  
 dbstring += c.getString(c.getColumnIndex("taskname"));  
 dbstring += "\n";  
 }  
 c.moveToNext();  
 }  
 db.close();  
 return dbstring;  
 }  
  
  
  
  
  
 @Override  
 public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {  
 db.execSQL(" DROP TABLE IF EXISTS " + *TABLE\_TASKS*);  
  
 onCreate(db);  
 }  
}

MainActvity.java:

package com.example.anabi.sqlitedatabasebasicforfinalproject;  
  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText editText;  
 TextView textView;  
 MyDatabaseHelper databaseHelper;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 editText = (EditText)findViewById(R.id.*editTextTask*);  
 textView = (TextView)findViewById(R.id.*textViewTask*);  
 databaseHelper = new MyDatabaseHelper(this,null,null,1);  
 printDB();  
  
  
 }  
  
 public void addButtonClicked(View view) {  
  
 Tasks tasks = new Tasks(editText.getText().toString());  
 databaseHelper.addTasks(tasks);  
 printDB();  
 editText.setText("");  
  
 }  
  
  
 public void removeButtonCliked(View view) {  
  
 String input = editText.getText().toString();  
 databaseHelper.removeTasks(input);  
 printDB();  
 editText.setText("");  
  
 }  
  
 public void printDB(){  
  
 String dbString = databaseHelper.databasetostring();  
 textView.setText(dbString);  
  
  
 }  
  
  
}

*Firebase Basics:*

**Activity.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"  
 tools:context=".MainActivity">  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:hint="Enter Name"  
 android:id="@+id/name"/>  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:hint="Enter Contact"  
 android:id="@+id/contact"/>  
  
 <Button  
 android:text="Click"  
 android:textColor="#fff"  
 android:textSize="18sp"  
 android:backgroundTint="@color/colorAccent"  
 android:onClick="buttonClicked"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" />  
  
 <TextView  
 android:layout\_marginTop="20sp"  
 android:layout\_gravity="center"  
 android:textAlignment="center"  
 android:textSize="18sp"  
 android:id="@+id/textView"  
 android:text="Demo"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content" />  
  
  
</LinearLayout>

**MainAcitivity.java:**

package com.example.anabi.finalyearfirebasebasiclearning;  
  
import android.support.annotation.NonNull;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.EditText;  
import android.widget.TextView;  
  
import com.google.firebase.database.DataSnapshot;  
import com.google.firebase.database.DatabaseError;  
import com.google.firebase.database.DatabaseReference;  
import com.google.firebase.database.FirebaseDatabase;  
import com.google.firebase.database.ValueEventListener;  
  
public class MainActivity extends AppCompatActivity {  
  
 TextView textView;  
 FirebaseDatabase database;  
 DatabaseReference myRef;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 database = FirebaseDatabase.*getInstance*();  
 myRef = database.getReference();  
  
  
  
 myRef.addValueEventListener(new ValueEventListener() {  
 @Override  
 public void onDataChange(@NonNull DataSnapshot dataSnapshot) {  
  
 }  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError databaseError) {  
  
 }  
 });  
  
  
  
  
  
 }  
  
 public void buttonClicked(View view) {  
  
  
 EditText editTextName = (EditText) findViewById(R.id.*name*);  
 EditText editTextContact = (EditText) findViewById(R.id.*contact*);  
  
 //myRef = database.getReference("Users");  
 //myRef.child("Names").push().setValue(editTextName.getText().toString());  
  
 String child = editTextName.getText().toString();  
 myRef = database.getReference("Users").child(child);  
 myRef.child("Name").setValue(editTextName.getText().toString());  
 myRef.child("contact").setValue(editTextContact.getText().toString());  
  
  
  
 }  
}

**Using Map Object to get Name and Contact using EditText and onclick**

**Will Store value to database and show in log.v:**

package com.example.anabi.finalyearfirebasebasiclearning;  
  
import android.support.annotation.NonNull;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.util.Log;  
import android.view.View;  
import android.widget.EditText;  
import android.widget.TextView;  
  
import com.google.firebase.database.DataSnapshot;  
import com.google.firebase.database.DatabaseError;  
import com.google.firebase.database.DatabaseReference;  
import com.google.firebase.database.FirebaseDatabase;  
import com.google.firebase.database.ValueEventListener;  
  
import java.util.Map;  
  
public class MainActivity extends AppCompatActivity {  
  
 TextView textView;  
 FirebaseDatabase database;  
 DatabaseReference myRef;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 database = FirebaseDatabase.*getInstance*();  
 myRef = database.getReference();  
  
  
  
 myRef.addValueEventListener(new ValueEventListener() {  
 @Override  
 public void onDataChange(@NonNull DataSnapshot dataSnapshot) {  
  
 Map<String,String> map = (Map<String,String>) dataSnapshot.getValue();  
 String name = map.get("Name");  
 String contact = map.get("Contact");  
  
 Log.*v*("Name",name);  
 Log.*v*("Contact",contact);  
  
 }  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError databaseError) {  
  
 }  
 });  
  
  
  
  
  
 }  
  
 public void buttonClicked(View view) {  
  
  
 EditText editTextName = (EditText) findViewById(R.id.*name*);  
 EditText editTextContact = (EditText) findViewById(R.id.*contact*);  
 myRef = database.getReference();  
 myRef.child("Name").setValue(editTextName.getText().toString());  
 myRef.child("contact").setValue(editTextContact.getText().toString());  
  
  
  
 }  
}

**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"  
 tools:context=".MainActivity">  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:hint="Enter Name"  
 android:id="@+id/name"/>  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:hint="Enter Contact"  
 android:id="@+id/contact"/>  
  
 <Button  
 android:text="Click"  
 android:textColor="#fff"  
 android:textSize="18sp"  
 android:backgroundTint="@color/colorAccent"  
 android:onClick="buttonClicked"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" />  
  
 <TextView  
 android:layout\_marginTop="20sp"  
 android:layout\_gravity="center"  
 android:textAlignment="center"  
 android:textSize="18sp"  
 android:id="@+id/textView"  
 android:text="Demo"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content" />  
  
  
</LinearLayout>

**Show Values in ListView: in Firebase:**

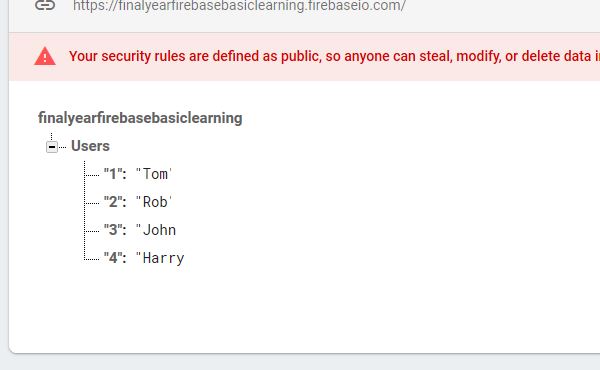
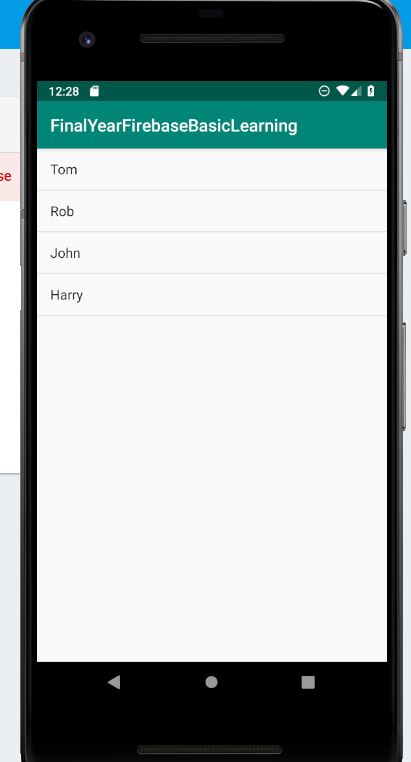
**XML:**

<?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"  
 tools:context=".MainActivity">  
  
  
 <ListView  
 android:id="@+id/listView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
  
 </ListView>  
  
</LinearLayout>

**MainActivity.java:**

package com.example.anabi.finalyearfirebasebasiclearning;  
  
import android.support.annotation.NonNull;  
import android.support.annotation.Nullable;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.util.Log;  
import android.view.View;  
import android.widget.ArrayAdapter;  
import android.widget.EditText;  
import android.widget.ListView;  
import android.widget.TextView;  
  
import com.google.firebase.database.ChildEventListener;  
import com.google.firebase.database.DataSnapshot;  
import com.google.firebase.database.DatabaseError;  
import com.google.firebase.database.DatabaseReference;  
import com.google.firebase.database.FirebaseDatabase;  
import com.google.firebase.database.ValueEventListener;  
  
import java.util.ArrayList;  
import java.util.Map;  
  
public class MainActivity extends AppCompatActivity {  
  
 private ListView listView;  
 private FirebaseDatabase database;  
 private DatabaseReference myRef;  
 private ArrayList<String> mUserName = new ArrayList<>();  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 database = FirebaseDatabase.*getInstance*();  
 myRef = database.getReference("Users");  
  
 listView = (ListView) findViewById(R.id.*listView*);  
  
 final ArrayAdapter<String> arrayAdapter = new ArrayAdapter<String>(this,android.R.layout.*simple\_list\_item\_1*,mUserName);  
  
 listView.setAdapter(arrayAdapter);  
  
 myRef.addChildEventListener(new ChildEventListener() {  
 @Override  
 public void onChildAdded(@NonNull DataSnapshot dataSnapshot, @Nullable String s) {  
  
 String value = dataSnapshot.getValue(String.class);  
 mUserName.add(value);  
 arrayAdapter.notifyDataSetChanged();  
  
 }  
  
 @Override  
 public void onChildChanged(@NonNull DataSnapshot dataSnapshot, @Nullable String s) {  
  
 }  
  
 @Override  
 public void onChildRemoved(@NonNull DataSnapshot dataSnapshot) {  
  
 }  
  
 @Override  
 public void onChildMoved(@NonNull DataSnapshot dataSnapshot, @Nullable String s) {  
  
 }  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError databaseError) {  
  
 }  
 });  
  
  
  
  
  
  
  
  
 }  
  
 //public void buttonClicked(View view) {  
  
  
 //EditText editTextName = (EditText) findViewById(R.id.name);  
 //EditText editTextContact = (EditText) findViewById(R.id.contact);  
 // myRef = database.getReference();  
 //myRef.child("Name").setValue(editTextName.getText().toString());  
 //myRef.child("contact").setValue(editTextContact.getText().toString());  
  
  
  
 //}  
}

Some Screenshot :



***Learn FireBase Authentication***

***With Emails:***

Xml: activity.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"  
 tools:context=".MainActivity">  
  
  
  
  
 <EditText  
 android:layout\_margin="20dp"  
 android:hint="Enter email.."  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/email"/>  
  
 <EditText  
 android:layout\_margin="20dp"  
 android:hint="Enter password.."  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/password"/>  
  
 <Button  
 android:textAlignment="center"  
 android:text="Login"  
 android:layout\_margin="20dp"  
 android:backgroundTint="@color/colorAccent"  
 android:textSize="18sp"  
 android:textColor="#fff"  
 android:onClick="LoginButtonCliked"  
 android:id="@+id/addButton"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" />  
  
</LinearLayout>

Xml : NewActivity.xml:

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout 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:orientation="vertical"  
 android:background="#0a1e00"  
 tools:context=".NewActivity">  
  
  
 <TextView  
 android:layout\_marginTop="200dp"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:text="Success"  
 android:textStyle="bold"  
 android:fontFamily="cursive"  
 android:textAlignment="center"  
 android:textColor="#05d45c"  
 android:textSize="90sp" />  
  
 <Button  
 android:textAlignment="center"  
 android:text="Logout"  
 android:layout\_margin="50dp"  
 android:backgroundTint="#df8106"  
 android:textSize="18sp"  
 android:textColor="#fff"  
 android:onClick="signOut"  
 android:id="@+id/addButton"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" />  
</LinearLayout>

MainActivity.java:

package com.example.anabi.finalyearfirebasebasiclearning;  
  
  
import android.content.Intent;  
import android.support.annotation.NonNull;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.text.TextUtils;  
import android.view.View;  
import android.widget.EditText;  
import android.widget.Toast;  
  
import com.google.android.gms.tasks.OnCompleteListener;  
import com.google.android.gms.tasks.Task;  
import com.google.firebase.auth.AuthResult;  
import com.google.firebase.auth.FirebaseAuth;  
import com.google.firebase.database.DatabaseReference;  
import com.google.firebase.database.FirebaseDatabase;  
  
  
public class MainActivity extends AppCompatActivity {  
  
 FirebaseDatabase database;  
 DatabaseReference myRef;  
  
 private FirebaseAuth mAuth;  
 private FirebaseAuth.AuthStateListener authStateListener;  
  
 private EditText emailText;  
 private EditText passText;  
  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
  
 emailText = (EditText) findViewById(R.id.*email*);  
 passText = (EditText) findViewById(R.id.*password*);  
  
 mAuth = FirebaseAuth.*getInstance*();  
  
 authStateListener = new FirebaseAuth.AuthStateListener() {  
 @Override  
 public void onAuthStateChanged(@NonNull FirebaseAuth firebaseAuth) {  
  
  
 if(firebaseAuth.getCurrentUser()!=null){  
 Intent intent = new Intent(MainActivity.this,NewActivity.class);  
 startActivity(intent);  
 }  
  
 }  
 };  
  
  
  
  
  
 }  
  
 @Override  
 protected void onStart() {  
 super.onStart();  
 mAuth.addAuthStateListener(authStateListener);  
 }  
  
 public void LoginButtonCliked(View view) {  
  
 String email = emailText.getText().toString();  
 String pass = passText.getText().toString();  
  
 if(TextUtils.*isEmpty*(email) || TextUtils.*isEmpty*(pass)){  
  
 Toast.*makeText*(this,"Enter Both Values",Toast.*LENGTH\_SHORT*).show();  
 }  
 else{  
  
 mAuth.signInWithEmailAndPassword(email,pass).addOnCompleteListener(new OnCompleteListener<AuthResult>() {  
 @Override  
 public void onComplete(@NonNull Task<AuthResult> task) {  
  
 if(!task.isSuccessful()){  
  
 Toast.*makeText*(MainActivity.this,"Incorrect username and password",Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
 }  
 });  
 }  
  
 }  
}

New Activity.java

package com.example.anabi.finalyearfirebasebasiclearning;  
  
import android.content.Intent;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
  
import com.google.firebase.auth.FirebaseAuth;  
  
public class NewActivity extends AppCompatActivity {  
  
 private FirebaseAuth mAuth;  
 private FirebaseAuth.AuthStateListener authStateListener;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_new*);  
 }  
  
 public void signOut(View view) {  
  
 mAuth = FirebaseAuth.*getInstance*();  
 mAuth.signOut();  
  
 startActivity(new Intent(NewActivity.this,MainActivity.class));  
  
 }  
}

Dependecies :

dependencies {  
 implementation fileTree(dir: 'libs', include: ['\*.jar'])  
 //noinspection GradleCompatible  
 implementation 'com.android.support:appcompat-v7:28.0.0'  
 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'  
 implementation 'com.google.firebase:firebase-database:16.0.5'  
 implementation 'com.google.firebase:firebase-core:16.0.6'  
 implementation 'com.google.firebase:firebase-auth:16.1.0'  
}

***Upload Image Using Phone UI to Firebase Storage***

Xml : imagePro.xml

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout 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"  
 tools:context=".ImagePro.MainImageProActivity">  
  
 <Button  
 android:onClick="buttonUpload"  
 android:text="Upload Image"  
 android:layout\_margin="20dp"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content" />  
  
</RelativeLayout>

ImagePro.java:>>

package com.example.anabi.finalyearfirebasebasiclearning.ImagePro;  
  
import android.content.Intent;  
import android.net.Uri;  
import android.support.annotation.Nullable;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Toast;  
  
import com.example.anabi.finalyearfirebasebasiclearning.MainActivity;  
import com.example.anabi.finalyearfirebasebasiclearning.R;  
import com.google.android.gms.tasks.OnSuccessListener;  
import com.google.firebase.storage.FirebaseStorage;  
import com.google.firebase.storage.StorageReference;  
import com.google.firebase.storage.UploadTask;  
  
public class MainImageProActivity extends AppCompatActivity {  
  
 private StorageReference storageReference;  
 private static final int *GALLERY\_INTENT* = 1;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main\_image\_pro*);  
  
  
 storageReference = FirebaseStorage.*getInstance*().getReference();  
  
 }  
  
 public void buttonUpload(View view) {  
  
  
 Intent intent = new Intent(Intent.*ACTION\_PICK*);  
 intent.setType("image/\*");  
 startActivityForResult(intent,*GALLERY\_INTENT*);  
  
 }  
  
  
 @Override  
 protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {  
  
 if(requestCode == *GALLERY\_INTENT* && resultCode == *RESULT\_OK*){  
  
 Uri uri = data.getData();  
 StorageReference filepath = storageReference.child("Photos").child(uri.getLastPathSegment());  
 filepath.putFile(uri).addOnSuccessListener(new OnSuccessListener<UploadTask.TaskSnapshot>() {  
 @Override  
 public void onSuccess(UploadTask.TaskSnapshot taskSnapshot) {  
  
 Toast.*makeText*(MainImageProActivity.this,"ImageUploaded",Toast.*LENGTH\_SHORT*).show();  
  
 }  
 });  
  
 }  
  
 }  
}

**Set Proper Webview**

appleBrandWebview = (WebView) findViewById(R.id.*appleBrandWebview*);  
appleBrandWebview.loadUrl("https://www.apple.com/iphone/");  
appleBrandWebview.getSettings().setJavaScriptEnabled(true);  
appleBrandWebview.setWebViewClient(new WebViewClient());  
appleBrandWebview.getSettings().setSupportZoom(true);  
appleBrandWebview.getSettings().setBuiltInZoomControls(true);  
appleBrandWebview.getSettings().setDisplayZoomControls(true);  
  
  
appleBrandWebview.setOnKeyListener(new View.OnKeyListener()  
{  
 @Override  
 public boolean onKey(View v, int keyCode, KeyEvent event)  
 {  
 if(event.getAction() == KeyEvent.*ACTION\_DOWN*)  
 {  
 WebView webView = (WebView) v;  
  
 switch(keyCode)  
 {  
 case KeyEvent.*KEYCODE\_BACK*:  
 if(webView.canGoBack())  
 {  
 webView.goBack();  
 return true;  
 }  
 break;  
 }  
 }  
  
 return false;  
 }  
});

**best Way to Implement Webview on fragment and tab view**

package com.example.anabi.finalyearproject1try.DesktopGpuActivity;  
  
  
import android.os.Bundle;  
import android.support.v4.app.Fragment;  
import android.view.KeyEvent;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.webkit.WebSettings;  
import android.webkit.WebView;  
import android.webkit.WebViewClient;  
  
import com.example.anabi.finalyearproject1try.R;  
  
*/\*\*  
 \* A simple {****@link*** *Fragment} subclass.  
 \*/*public class DesktopGpuNvidiaTab extends Fragment {  
  
  
  
 public DesktopGpuNvidiaTab() {  
 // Required empty public constructor  
 }  
  
  
 @Override  
 public View onCreateView(LayoutInflater inflater, ViewGroup container,  
 Bundle savedInstanceState) {  
  
  
  
 View v = inflater.inflate(R.layout.*fragment\_desktop\_gpu\_nvidia\_tab*, container, false);  
  
 WebView desktopGpuNvidiaWebView = (WebView)v.findViewById(R.id.*desktopGpuNvidiaWebview*);  
 desktopGpuNvidiaWebView.getSettings().setJavaScriptEnabled(true);  
 desktopGpuNvidiaWebView.setWebViewClient(new WebViewClient());  
 desktopGpuNvidiaWebView.loadUrl("https://www.nvidia.com/en-us/geforce/20-series/");  
 desktopGpuNvidiaWebView.getSettings().setSupportZoom(true);  
 desktopGpuNvidiaWebView.getSettings().setBuiltInZoomControls(true);  
 desktopGpuNvidiaWebView.getSettings().setDisplayZoomControls(true);  
  
 desktopGpuNvidiaWebView.setOnKeyListener(new View.OnKeyListener()  
 {  
 @Override  
 public boolean onKey(View v, int keyCode, KeyEvent event)  
 {  
 if(event.getAction() == KeyEvent.*ACTION\_DOWN*)  
 {  
 WebView webView = (WebView) v;  
  
 switch(keyCode)  
 {  
 case KeyEvent.*KEYCODE\_BACK*:  
 if(webView.canGoBack())  
 {  
 webView.goBack();  
 return true;  
 }  
 break;  
 }  
 }  
  
 return false;  
 }  
 });  
  
 // Inflate the layout for this fragment  
 return v;  
}  
  
 public interface OnFragmentInteractionListener {  
 }  
  
}

***Advanced WebView***

Some important link to show youtube video is full screen:

1. <https://www.monstertechnocodes.com/2018/07/how-to-enable-fullscreen-mode-in-any.html>

2. https://www.monstertechnocodes.com/2018/11/how-to-handle-orientation-change-in.html

Main XML:

<?xml version="1.0" encoding="utf-8"?>  
<android.support.v4.widget.SwipeRefreshLayout 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:orientation="vertical"  
 android:id="@+id/mySwipeLayout"  
 tools:context=".MainActivity">  
  
 <LinearLayout  
 android:orientation="vertical"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
  
 <LinearLayout  
 android:id="@+id/linear\_layout"  
 android:visibility="visible"  
 android:orientation="horizontal"  
 android:layout\_width="match\_parent"  
 android:layout\_height="30dp">  
  
 <ProgressBar  
 android:id="@+id/myProgressBar"  
 android:layout\_weight="0.1"  
 style="@style/Base.Widget.AppCompat.ProgressBar.Horizontal"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent" />  
  
 <ImageView  
 android:id="@+id/myImageView"  
 android:src="@mipmap/ic\_launcher\_round"  
 android:layout\_weight="0.9"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent" />  
  
  
  
 </LinearLayout>  
  
 <WebView  
 android:id="@+id/myWebView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"/>  
  
 </LinearLayout>  
  
</android.support.v4.widget.SwipeRefreshLayout>

**Menu:**

<?xml version="1.0" encoding="utf-8"?>  
<menu xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto">  
  
 <item  
 android:id="@+id/menu\_back"  
 app:showAsAction="always"  
 android:icon="@drawable/ic\_arrow\_backward"  
 android:title="Backward"/>  
  
 <item  
 android:id="@+id/menu\_forward"  
 app:showAsAction="always"  
 android:icon="@drawable/ic\_arrow\_forward"  
 android:title="Forward"/>  
  
 <item  
 android:id="@+id/menu\_share"  
 android:icon="@drawable/ic\_share"  
 android:title="Share app"/>  
  
 <item  
 android:id="@+id/menu\_refresh"  
 android:icon="@drawable/ic\_refresh"  
 android:title="Refresh"/>  
  
  
  
  
  
  
</menu>

**Main\_Activity.Java:------**

package com.example.anabi.advancedwebview;  
  
import android.content.Intent;  
import android.graphics.Bitmap;  
import android.support.v4.widget.SwipeRefreshLayout;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.Menu;  
import android.view.MenuInflater;  
import android.view.MenuItem;  
import android.view.View;  
import android.webkit.WebChromeClient;  
import android.webkit.WebView;  
import android.webkit.WebViewClient;  
import android.widget.ImageView;  
import android.widget.LinearLayout;  
import android.widget.ProgressBar;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 ProgressBar progressBar;  
 ImageView imageView;  
 WebView webView;  
 LinearLayout mlinearLayout;  
 SwipeRefreshLayout swipeRefreshLayout;  
 String myCurrentUrl;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 progressBar = (ProgressBar) findViewById(R.id.*myProgressBar*);  
 imageView = (ImageView)findViewById(R.id.*myImageView*);  
 webView = (WebView) findViewById(R.id.*myWebView*);  
 mlinearLayout = (LinearLayout)findViewById(R.id.*linear\_layout*);  
 swipeRefreshLayout = (SwipeRefreshLayout)findViewById(R.id.*mySwipeLayout*);  
  
 progressBar.setMax(100);  
  
 webView.loadUrl("https://www.google.com");  
 webView.getSettings().setJavaScriptEnabled(true);  
 webView.setWebViewClient(new WebViewClient(){  
  
 @Override  
 public void onPageStarted(WebView view, String url, Bitmap favicon) {  
 mlinearLayout.setVisibility(View.*VISIBLE*);  
 super.onPageStarted(view, url, favicon);  
 }  
  
 @Override  
 public void onPageFinished(WebView view, String url) {  
 mlinearLayout.setVisibility(View.*GONE*);  
 swipeRefreshLayout.setRefreshing(false);  
 super.onPageFinished(view, url);  
 myCurrentUrl = url;  
 }  
 });  
 webView.setWebChromeClient(new WebChromeClient(){  
  
 @Override  
 public void onProgressChanged(WebView view, int newProgress) {  
 super.onProgressChanged(view, newProgress);  
 progressBar.setProgress(newProgress);  
 }  
  
 @Override  
 public void onReceivedTitle(WebView view, String title) {  
 super.onReceivedTitle(view, title);  
 getSupportActionBar().setTitle(title);  
 }  
  
 @Override  
 public void onReceivedIcon(WebView view, Bitmap icon) {  
 super.onReceivedIcon(view, icon);  
 imageView.setImageBitmap(icon);  
 }  
 });  
  
 swipeRefreshLayout.setOnRefreshListener(new SwipeRefreshLayout.OnRefreshListener() {  
 @Override  
 public void onRefresh() {  
  
 webView.reload();  
  
 }  
 });  
  
  
  
 }  
  
  
 @Override  
 public boolean onCreateOptionsMenu(Menu menu) {  
 MenuInflater menuInflater = getMenuInflater();  
 menuInflater.inflate(R.menu.*menu*,menu);  
 return super.onCreateOptionsMenu(menu);  
 }  
  
  
 @Override  
 public boolean onOptionsItemSelected(MenuItem item) {  
  
 switch (item.getItemId()){  
  
 case R.id.*menu\_back*:  
 onBackPressed();  
 break;  
  
 case R.id.*menu\_forward*:  
 onForwardPressed();  
 break;  
  
 case R.id.*menu\_refresh*:  
 webView.reload();  
 break;  
  
 case R.id.*menu\_share*:  
 Intent shareIntent = new Intent(Intent.*ACTION\_SEND*);  
 shareIntent.setType("text/plain");  
 shareIntent.putExtra(Intent.*EXTRA\_TEXT*,myCurrentUrl);  
 shareIntent.putExtra(Intent.*EXTRA\_SUBJECT*,"Copied URL");  
 startActivity(Intent.*createChooser*(shareIntent,"Share URL with friends"));  
  
 }  
  
 return super.onOptionsItemSelected(item);  
 }  
  
  
  
 private void onForwardPressed(){  
 if(webView.canGoForward()){  
  
 webView.goForward();  
 }  
 else {  
  
 Toast.*makeText*(getApplicationContext(),"cannot go further!",Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
 @Override  
 public void onBackPressed() {  
 if(webView.canGoBack()){  
  
 webView.goBack();  
  
 }else {  
 finish();  
 }  
 }  
}

**styles.xml:**

<resources>  
  
 <!-- Base application theme. -->  
 <style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">  
 <!-- Customize your theme here. -->  
 <item name="colorPrimary">#8528ff</item>  
 <item name="colorPrimaryDark">#7b00c7</item>  
 <item name="colorAccent">@color/colorAccent</item>  
 </style>  
  
</resources>

**Manifest:**

<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.anabi.advancedwebview">  
  
 <uses-permission android:name="android.permission.INTERNET"></uses-permission>  
  
 <application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/AppTheme">  
 <activity android:name=".MainActivity">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
 </application>  
  
</manifest>

After That Most Advanced Project Based WebView Full Support Full screen Youtube video.:

Main.xml---

<?xml version="1.0" encoding="utf-8"?>  
  
<RelativeLayout 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"  
  
 tools:context=".MainActivity">  
  
  
  
  
  
 <WebView  
  
 android:id="@+id/webView"  
  
 android:layout\_width="match\_parent"  
  
 android:layout\_height="match\_parent"  
  
 android:layout\_centerInParent="true" />  
  
 <ProgressBar  
  
 android:id="@+id/progressbar"  
  
 android:layout\_width="wrap\_content"  
  
 android:layout\_height="wrap\_content"  
  
 android:layout\_centerInParent="true"/>  
  
</RelativeLayout>

Main.Java-----------

package com.example.anabi.fullscreenvideowebview;  
import android.annotation.SuppressLint;  
  
import android.content.Context;  
  
import android.content.res.Configuration;  
import android.graphics.Bitmap;  
  
import android.graphics.BitmapFactory;  
  
import android.net.ConnectivityManager;  
  
import android.net.NetworkInfo;  
  
import android.support.v7.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
import android.view.View;  
  
import android.webkit.WebChromeClient;  
  
import android.webkit.WebSettings;  
  
import android.webkit.WebView;  
  
import android.webkit.WebViewClient;  
  
import android.widget.FrameLayout;  
  
import android.widget.ProgressBar;  
  
  
  
public class MainActivity extends AppCompatActivity {  
  
  
  
 WebView mWebView;  
  
 ProgressBar progressBar;  
  
  
  
 @SuppressLint("SetJavaScriptEnabled")  
  
 @Override  
  
 protected void onCreate(Bundle savedInstanceState) {  
  
 super.onCreate(savedInstanceState);  
  
 setContentView(R.layout.*activity\_main*);  
  
  
  
 progressBar = (ProgressBar) findViewById(R.id.*progressbar*);  
  
 mWebView = (WebView) findViewById(R.id.*webView*);  
  
  
  
 progressBar.setVisibility(View.*VISIBLE*);  
  
 mWebView.setWebViewClient(new Browser\_home());  
  
 mWebView.setWebChromeClient(new MyChrome());  
  
 WebSettings webSettings = mWebView.getSettings();  
  
 webSettings.setJavaScriptEnabled(true);  
  
 webSettings.setAllowFileAccess(true);  
  
 webSettings.setAppCacheEnabled(true);  
  
 loadWebsite();  
  
 //new code  
  
 if(savedInstanceState==null){  
 mWebView.post(new Runnable() {  
 @Override  
 public void run() {  
 loadWebsite();  
 }  
 });  
 }  
  
//end new code  
  
 }  
  
  
  
  
  
 //new code  
  
 @Override  
 public void onConfigurationChanged(Configuration newConfig) {  
 super.onConfigurationChanged(newConfig);  
 }  
  
 @Override  
 protected void onSaveInstanceState(Bundle outState )  
 {  
 super.onSaveInstanceState(outState);  
 mWebView.saveState(outState);  
 }  
  
 @Override  
 protected void onRestoreInstanceState(Bundle savedInstanceState)  
 {  
 super.onRestoreInstanceState(savedInstanceState);  
 mWebView.restoreState(savedInstanceState);  
 }  
  
  
 //end new code  
  
  
  
  
 private void loadWebsite() {  
  
 ConnectivityManager cm = (ConnectivityManager) getApplication().getSystemService(Context.*CONNECTIVITY\_SERVICE*);  
  
 NetworkInfo netInfo = cm.getActiveNetworkInfo();  
  
 if (netInfo != null && netInfo.isConnectedOrConnecting()) {  
  
 mWebView.loadUrl("https://www.youtube.com/");  
  
 } else {  
  
 mWebView.setVisibility(View.*GONE*);  
  
 }  
  
 }  
  
  
  
 class Browser\_home extends WebViewClient {  
  
  
  
 Browser\_home() {  
  
 }  
  
  
  
 @Override  
  
 public void onPageStarted(WebView view, String url, Bitmap favicon) {  
  
 super.onPageStarted(view, url, favicon);  
  
  
  
 }  
  
  
  
 @Override  
  
 public void onPageFinished(WebView view, String url) {  
  
 setTitle(view.getTitle());  
  
 progressBar.setVisibility(View.*GONE*);  
  
 super.onPageFinished(view, url);  
  
  
  
 }  
  
 }  
  
  
  
  
  
 private class MyChrome extends WebChromeClient {  
  
  
  
 private View mCustomView;  
  
 private WebChromeClient.CustomViewCallback mCustomViewCallback;  
  
 protected FrameLayout mFullscreenContainer;  
  
 private int mOriginalOrientation;  
  
 private int mOriginalSystemUiVisibility;  
  
  
  
 MyChrome() {}  
  
  
  
 public Bitmap getDefaultVideoPoster()  
  
 {  
  
 if (mCustomView == null) {  
  
 return null;  
  
 }  
  
 return BitmapFactory.*decodeResource*(getApplicationContext().getResources(), 2130837573);  
  
 }  
  
  
  
 public void onHideCustomView()  
  
 {  
  
 ((FrameLayout)getWindow().getDecorView()).removeView(this.mCustomView);  
  
 this.mCustomView = null;  
  
 getWindow().getDecorView().setSystemUiVisibility(this.mOriginalSystemUiVisibility);  
  
 setRequestedOrientation(this.mOriginalOrientation);  
  
 this.mCustomViewCallback.onCustomViewHidden();  
  
 this.mCustomViewCallback = null;  
  
 }  
  
  
  
 public void onShowCustomView(View paramView, WebChromeClient.CustomViewCallback paramCustomViewCallback)  
  
 {  
  
 if (this.mCustomView != null)  
  
 {  
  
 onHideCustomView();  
  
 return;  
  
 }  
  
 this.mCustomView = paramView;  
  
 this.mOriginalSystemUiVisibility = getWindow().getDecorView().getSystemUiVisibility();  
  
 this.mOriginalOrientation = getRequestedOrientation();  
  
 this.mCustomViewCallback = paramCustomViewCallback;  
  
 ((FrameLayout)getWindow().getDecorView()).addView(this.mCustomView, new FrameLayout.LayoutParams(-1, -1));  
  
 getWindow().getDecorView().setSystemUiVisibility(3846);  
  
 }  
  
 }  
  
}

manifest:

<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.anabi.fullscreenvideowebview">  
  
 <uses-permission android:name="android.permission.INTERNET"></uses-permission>  
 <uses-permission android:name="android.permission.ACCESS\_NETWORK\_STATE"></uses-permission>  
  
 <application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/AppTheme">  
 <activity android:name=".MainActivity"  
 android:configChanges="keyboard|keyboardHidden|orientation|screenLayout|uiMode|screenSize|smallestScreenSize">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
 </application>  
  
</manifest>

Styles:

<resources>  
  
 <!-- Base application theme. -->  
 <style name="AppTheme" parent="Theme.AppCompat.Light.NoActionBar">  
 <!-- Customize your theme here. -->  
 <item name="colorPrimary">#da0e0e</item>  
 <item name="colorPrimaryDark">#bf0000</item>  
 <item name="colorAccent">@color/colorAccent</item>  
 </style>  
  
</resources>