

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>
```

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.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.text_view_name_id);
        passTextView = (TextView) findViewById(R.id.text_view_password_id);
        emailTextView = (TextView) findViewById(R.id.text_view_email_id);

        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="Tab 1"
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.AdapterView.OnItemClickListener;
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.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(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:rfa="http://schemas.android.com/apk/res-auto"
        android:id="@+id/activity_main_rfa"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        rfa:rfa_frame_color="#ffffff"
        rfa:rfa_frame_alpha="0.7"
    >
        <com.wangjie.rapidfloatingactionbutton.RapidFloatingActionButton
            xmlns:rfa="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"
            rfa:rfa_size="normal"
            rfa:rfa_drawable="@drawable/rfa__drawable_rfa_default"
            rfa:rfa_color_normal="#f20085"
            rfa:rfa_color_pressed="#263238"
            rfa:rfa_shadow_radius="7dp"
            rfa:rfa_shadow_color="#464646"
            rfa:rfa_shadow_dx="0dp"
            rfa:rfa_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.wangjiegulurfab:2.0.0'
}
```

Sqlite-DataBase Demo Udemmy:

```
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="removeButtonClicked"
    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);
}
}
```

MainActivity.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 removeButtonClicked(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>

```

MainActivity.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.AdapterView;
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 :

12:28



FinalYearFirebaseBasicLearning

Tom

Rob

John

Harry

 Your security rules are defined as public, so anyone can steal, modify, or delete data in this database.

finalyearfirebasebasiclearning

 Users

```
"1": "Tom"
"2": "Rob"
"3": "John"
"4": "Harry"
```

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="LoginButtonClicked"
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));

}

}
```

Dependencies :

```
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.finalyearproject1 try.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.finalyearproject1 try.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 onKeyDown(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 {
}

}

```


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 inflater = getMenuInflater();
    inflater.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:supportRtl="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>
```