**Mobile Application Development Lab**

**Assignment**

Submitted By,

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RMCA S3 B

Roll No: 37

**Q.** **Create a Facebook login and signup page**

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout  
 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="@color/purple\_200"  
 android:orientation="vertical"  
 android:textAlignment="viewEnd"  
 tools:context=".MainActivity">  
 <FrameLayout  
 android:id="@+id/frameLayout"  
 android:layout\_width="362dp"  
 android:layout\_height="403dp"  
 android:background="@color/white"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.489"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.609">  
 <EditText  
 android:id="@+id/ed1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="61dp"  
 android:layout\_marginStart="30dp"  
  
 android:layout\_marginTop="30dp"  
 android:layout\_marginEnd="20dp"  
 android:ems="15"  
 android:inputType="textPersonName"  
 android:text="" />  
 <EditText  
 android:id="@+id/ed2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="61dp"  
 android:layout\_marginStart="30dp"  
 android:layout\_marginTop="110dp"  
  
 android:layout\_marginEnd="20dp"  
 android:text="" />  
 <com.google.android.material.textfield.TextInputLayout  
 android:id="@+id/l1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="30dp"  
 android:layout\_marginTop="30dp"  
 android:layout\_marginEnd="20dp">  
 <com.google.android.material.textfield.TextInputEditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Name" />  
 </com.google.android.material.textfield.TextInputLayout>  
 <com.google.android.material.textfield.TextInputLayout  
 android:id="@+id/l2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content">  
  
 <com.google.android.material.textfield.TextInputEditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="30dp"  
 android:layout\_marginTop="110dp"  
 android:layout\_marginEnd="20dp"  
 android:hint="Password"  
 android:textColor="#3F51B5" />  
 </com.google.android.material.textfield.TextInputLayout>  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="30dp"  
 android:layout\_marginTop="180dp"  
 android:layout\_marginEnd="20dp"  
 android:backgroundTint="#2196F3"  
 android:text="Login" />  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="100dp"  
 android:layout\_marginTop="240dp"  
 android:layout\_marginEnd="20dp"  
 android:text="Forgotten Password?"  
 android:textColor="#1F3AD1" />  
 <Button  
 android:id="@+id/button2"  
 android:layout\_width="match\_parent"  
  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="70dp"  
 android:layout\_marginTop="290dp"  
 android:layout\_marginEnd="50dp"  
 android:backgroundTint="#2FE136"  
 android:text="Create a Account" />  
 </FrameLayout>  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="189dp"  
 android:layout\_height="43dp"  
 android:fontFamily="sans-serif-black"  
 android:text="facebook"  
 android:textAlignment="center"  
 android:textColor="#3F51B5"  
 android:textSize="34sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.049" />  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="335dp"  
 android:layout\_height="91dp"  
 android:text="Facebook helps you to connect and share with the  
people in your life"  
 android:textAlignment="center"  
 android:textColor="#0C0C0C"  
  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.433"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.13" />  
 <TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Create a page for celebrity,brand or business"  
 android:textAlignment="center"  
 android:textColor="#0C0C0C"  
 android:textSize="16sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.555"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.891" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.facebook;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
import android.widget.Toast;  
import com.google.android.material.textfield.TextInputLayout;  
public class MainActivity extends AppCompatActivity {  
 Button b1,b2;  
 TextView e1,e2;  
 TextInputLayout l1,l2;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 b1=findViewById(R.id.*button*);  
 b2=findViewById(R.id.*button2*);  
 l1=findViewById(R.id.*l1*);  
 l2=findViewById(R.id.*l2*);  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String uname=l1.getEditText().getText().toString();  
 String passw=l2.getEditText().getText().toString();  
 if(uname.equals("")){  
  
 Toast.*makeText*(MainActivity.this, "Enter Username",  
 Toast.*LENGTH\_SHORT*).show();  
 }  
 else if(passw.equals("")){  
 Toast.*makeText*(MainActivity.this, "Enter Password",  
 Toast.*LENGTH\_SHORT*).show();  
 }  
 else{  
 Intent j=new Intent(MainActivity.this,login.class);  
 if(uname.equals("Tony")){  
 j.putExtra("name",uname);  
 startActivity(j);  
 }  
 else {  
  
 Toast.*makeText*(MainActivity.this, "Invalid user",  
 Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
  
 }  
 });  
  
 b2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Intent i=new Intent(MainActivity.this,signup.class);  
 startActivity(i);  
 }  
 });  
 }  
}

**activity\_main2.xml**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout 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=".login">  
  
 <TextView  
 android:id="@+id/textView8"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:fontFamily="serif-monospace"  
 android:text="Logged In"  
 android:textAlignment="center"  
 android:textColor="#E91E63"  
 android:textSize="48sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/t1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:fontFamily="sans-serif-medium"  
 android:textColor="#2196F3"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.407" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**activity\_login.xml**

package com.example.facebook;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
public class MainActivity2 extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main2*);  
 }  
}

**login.java**

package com.example.facebook;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.widget.TextView;  
  
public class login extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_login*);  
 Intent j=getIntent();  
 TextView t1=findViewById(R.id.*t1*);  
 String uname=j.getStringExtra("name");  
 t1.setText(uname);  
 }  
}

**activity\_signup.xml**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout 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=".signup">  
  
 <TextView  
 android:id="@+id/textView5"  
 android:layout\_width="259dp"  
 android:layout\_height="45dp"  
 android:fontFamily="sans-serif-black"  
 android:text="Sign Up"  
 android:textColor="#050505"  
 android:textSize="34sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.138"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.04" />  
  
 <TextView  
 android:id="@+id/textView6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Its quick and easy"  
 android:textColor="#171717"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.083"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.102" />  
  
 <EditText  
 android:id="@+id/ed1"  
 android:layout\_width="189dp"  
 android:layout\_height="45dp"  
 android:ems="10"  
 android:hint="First Name"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.253" />  
  
 <EditText  
 android:id="@+id/ed2"  
 android:layout\_width="200dp"  
 android:layout\_height="45dp"  
 android:ems="10"  
 android:hint="Surname"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.971"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.253" />  
  
 <EditText  
 android:id="@+id/ed3"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Mobile number or email"  
 android:inputType="text"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.358" />  
  
 <EditText  
 android:id="@+id/ed4"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint=" New Password"  
 android:inputType="textPassword"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.448" />  
  
 <Spinner  
 android:id="@+id/spinner"  
 android:layout\_width="130dp"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.594" />  
  
 <Spinner  
 android:id="@+id/spinner1"  
 android:layout\_width="130dp"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.594" />  
  
 <Spinner  
 android:id="@+id/spinner2"  
 android:layout\_width="130dp"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.996"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.594" />  
  
 <TextView  
 android:id="@+id/textView7"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:fontFamily="sans-serif-medium"  
 android:text="Date of Birth"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.526" />  
  
 <Button  
 android:id="@+id/button3"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:text="Sign In"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.877" />  
  
 <TextView  
 android:id="@+id/textView9"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:fontFamily="sans-serif-medium"  
 android:text="Gender"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.644" />  
  
 <RadioGroup  
 android:id="@+id/radio"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:orientation="horizontal"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.723">  
  
 <RadioButton  
 android:id="@+id/radiobutton1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="50dp"  
 android:checked="false"  
 android:text="Male"  
 android:textSize="20dp" />  
  
 <RadioButton  
 android:id="@+id/radiobutton2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="50dp"  
 android:checked="false"  
 android:text="Female"  
 android:textSize="20dp" />  
  
 <RadioButton  
 android:id="@+id/radiobutton3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="50dp"  
 android:checked="false"  
 android:text="Custom"  
 android:textSize="20dp" />  
  
  
 </RadioGroup>  
  
 <TextView  
 android:id="@+id/textView10"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:fontFamily="sans-serif-medium"  
 android:text="\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"  
 android:textColor="#0C0707"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.157" />  
  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**signup.java**

package com.example.facebook;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.widget.ArrayAdapter;  
import android.widget.EditText;  
import android.widget.Spinner;  
  
public class signup extends AppCompatActivity {  
 EditText e1,e2,e3,e4;  
 Spinner s1,s2,s3;  
 String[] date={"1","2","3","4","5","6","7","8","9","10"};  
 String[] month={"01","02","03","04","05","06","07","08","09","10","11","12"};  
 String[] year={"2000","2001","2002","2003","2004","2005"};  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_signup*);  
 Intent i=getIntent();  
 e1=findViewById(R.id.*ed1*);  
 e2=findViewById(R.id.*ed2*);  
 e3=findViewById(R.id.*ed3*);  
 e4=findViewById(R.id.*ed4*);  
 s1=findViewById(R.id.*spinner*);  
 s2=findViewById(R.id.*spinner1*);  
 s3=findViewById(R.id.*spinner2*);  
  
 ArrayAdapter arrayAdapter=new ArrayAdapter(this, R.layout.*support\_simple\_spinner\_dropdown\_item*,date);  
 s1.setAdapter(arrayAdapter);  
 ArrayAdapter arrayAdapter1=new ArrayAdapter(this,R.layout.*support\_simple\_spinner\_dropdown\_item*,month);  
 s2.setAdapter(arrayAdapter1);  
 ArrayAdapter arrayAdapter2=new ArrayAdapter(this,R.layout.*support\_simple\_spinner\_dropdown\_item*,year);  
 s3.setAdapter(arrayAdapter2);  
  
 }  
}

**Output**

 

 