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</pre>
  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</p>
  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</p>
    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 I1,I2;
  @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./1);
    l2=findViewById(R.id.l2);
    b1.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        String uname=I1.getEditText().getText().toString();
```

```
String passw=I2.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"
```

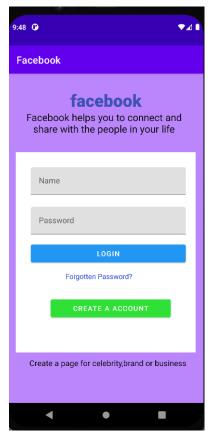
```
app:layout constraintEnd toEndOf="parent"
  app:layout constraintHorizontal bias="0.0"
  app:layout constraintStart toStartOf="parent"
  app:layout constraintTop toTopOf="parent"
  app:layout constraintVertical bias="0.594" />
<Spinner
  android:id="@+id/spinner1"
  android:layout width="130dp"
  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;
```

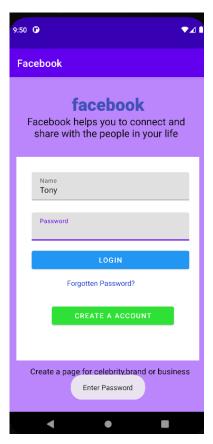
```
import android.content.Intent;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.EditText;
import android.widget.Spinner;
public class signup extends AppCompatActivity {
  EditText e1,e2,e3,e4;
  Spinner s1,s2,s3;
  String[] date={"1","2","3","4","5","6","7","8","9","10"};
  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











Sign Up Its quick and easy