

# **Mobile Application Development Lab**

## **Assignment**

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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

