

PRACTICAL 3

Aim: Develop an android app which displays a form to get following information from user. Username, Password, Email Address, Phone Number, Country, State, Gender, Interests, Birth Date, Birth Time Form should be followed by a Button with label “Submit”. When user clicks the button, a message should be displayed on New Activity using Intent to user describing the information entered.

Code:

JAVA FILE: (MainActivity.java)

```
package com.example.practical3;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
    private EditText usernameEditText, passwordEditText, emailEditText, phoneEditText,
countryEditText, stateEditText, birthDateEditText, birthTimeEditText;
    private RadioGroup genderRadioGroup;
    private CheckBox CheckBox1,CheckBox2,CheckBox3,CheckBox4;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        usernameEditText = findViewById(R.id.usernameEditText);
        passwordEditText = findViewById(R.id.passwordEditText);
        emailEditText = findViewById(R.id.emailEditText);
        phoneEditText = findViewById(R.id.phoneEditText);
        countryEditText = findViewById(R.id.countryEditText);
        stateEditText = findViewById(R.id.stateEditText);
        genderRadioGroup = findViewById(R.id.genderRadioGroup);
        CheckBox1 = findViewById(R.id.checkboxOption1);
        CheckBox2 = findViewById(R.id.checkboxOption2);
        CheckBox3 = findViewById(R.id.checkboxOption3);
        CheckBox4 = findViewById(R.id.checkboxOption4);
```

```
birthDateEditText = findViewById(R.id.birthdateEditText);
birthTimeEditText = findViewById(R.id.birthtimeEditText);
Button submitButton = findViewById(R.id.submitButton);
submitButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        String username = usernameEditText.getText().toString();
        String password = passwordEditText.getText().toString();
        String email = emailEditText.getText().toString();
        String phone = phoneEditText.getText().toString();
        String country = countryEditText.getText().toString();
        String state = stateEditText.getText().toString();
        String gender = ((RadioButton)
findViewById(genderRadioGroup.getCheckedRadioButtonId())).getText().toString();
        String interests = getInterests();
        String birthDate = birthDateEditText.getText().toString();
        String birthTime = birthTimeEditText.getText().toString();
        String message = "Username: " + username + "\n"
            + "Password: " + password + "\n"
            + "Email: " + email + "\n"
            + "Phone: " + phone + "\n"
            + "Country: " + country + "\n"
            + "State: " + state + "\n"
            + "Gender: " + gender + "\n"
            + "Interests: " + interests + "\n"
            + "Birth-Date: " + birthDate + "\n"
            + "Birth-Time: " + birthTime;
        Intent intent = new Intent(MainActivity.this,
com.example.practical3.MainActivity2.class);
        intent.putExtra("message", message);
        startActivity(intent);
    }
});
}

private String getInterests() {
    StringBuilder interests = new StringBuilder();
    if (CheckBox1.isChecked()) {
        if (CheckBox1.isChecked()) {
            interests.append("Gaming, ");
        }
    }
    if (CheckBox2.isChecked()) {
        interests.append("Dancing, ");
    }
    if (CheckBox3.isChecked()) {
```

```
        interests.append("Singing, ");
    }
    if (CheckBox4.isChecked()) {
        interests.append("Reading, ");
    }
    if (interests.length() > 0) {
        interests.delete(interests.length() - 2, interests.length());
    }
    return interests.toString();
}
return null;
}
```

XML FILE: (activity_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"
    android:padding="15dp"
    tools:context=".MainActivity">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <TextView
            android:id="@+id/textView"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text=" Name: Angat Shah \n Enrollment No: 202203103510097 \n Branch:
B.Tech CSE"
            tools:ignore="MissingConstraints" />
        <EditText
            android:id="@+id/usernameEditText"
            android:hint="USERNAME"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="17dp"/>
        <EditText
            android:id="@+id/passwordEditText"
            android:hint="PASSWORD"
            android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"
        android:inputType="textPassword"/>
    <EditText
        android:id="@+id/emailEditText"
        android:hint="EMAIL ADDRESS"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="textEmailAddress"/>
    <EditText
        android:id="@+id/phoneEditText"
        android:hint="PHONE NUMBER"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="phone"/>
    <EditText
        android:id="@+id/countryEditText"
        android:hint="COUNTRY"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>
    <EditText
        android:id="@+id/stateEditText"
        android:hint="STATE"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>
    <RadioGroup
        android:id="@+id/genderRadioGroup"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="GENDER:"
            android:textSize="20dp"/>
        <RadioButton
            android:id="@+id/maleRadioButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="MALE"/>
        <RadioButton
            android:id="@+id/femaleRadioButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="FEMALE"/>
```

```
</RadioGroup>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="INTERESTS"
    android:textSize="20dp"/>
<LinearLayout
    android:id="@+id/checkboxContainer"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <CheckBox
        android:id="@+id/checkboxOption1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Gaming"/>
    <CheckBox
        android:id="@+id/checkboxOption2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Dancing"/>
    <CheckBox
        android:id="@+id/checkboxOption3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Singing"/>
    <CheckBox
        android:id="@+id/checkboxOption4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Reading"/>
</LinearLayout>
<EditText
    android:id="@+id/birthdateEditText"
    android:hint="BIRTH DATE"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:inputType="date"/>
<EditText
    android:id="@+id/birthtimeEditText"
    android:hint="BIRTH TIME"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:inputType="time"/>
```

```
<Button
    android:id="@+id/submitButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="SUBMIT"
    android:textSize="25dp"
    android:layout_marginTop="40dp"
    android:layout_gravity="center"/>
</LinearLayout>
</RelativeLayout>
```

JAVA FILE: (MainActivity2.java)

```
package com.example.practical3;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;
public class MainActivity2 extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        Intent intent = getIntent();
        String message = intent.getStringExtra("message");
        TextView messageTextView = findViewById(R.id.messageTextView);
        messageTextView.setText(message);
    }
}
```

XML FILE: (activity_main2.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=".MainActivity2"
    android:padding="15dp">
    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_margin="10dp"
```

Enrollment No: 202203103510097

```
android:text=" Name: Angat Shah \n Enrollment No.: 202203103510097 \n Branch:
B.Tech CSE"/>
```

```
<TextView
```

```
    android:id="@+id/messageTextView"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_centerInParent="true"
```

```
    android:textSize="18sp"
```

```
    android:text="USER INFORMATION"
```

```
    android:textStyle="italic"
```

```
    android:padding="5dp"/>
```

```
</RelativeLayout>
```

Output:

