



PRESIDENCY UNIVERSITY

Mobile application development(CSE 3075)

20211CSE0223

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5CSE4

1.Design(XML File)

```
<?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="@drawable/img"
tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="35dp"
        android:gravity="left"
        android:text="Elective name"
        android:textColor="#CF781B"
        android:textSize="16sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/spinner"
        app:layout_constraintEnd_toEndOf="@+id/radioGroup"
        app:layout_constraintStart_toStartOf="@+id/radioGroup"
        app:layout_constraintTop_toBottomOf="@+id/textView" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="31dp"
        android:layout_marginBottom="354dp"
        android:fontFamily="sans-serif-condensed-medium"
        android:text="Open Elective Course Registration 2023-24"
        android:textColor="#002C04"
        android:textSize="24sp"
        app:layout_constraintBottom_toTopOf="@+id/textView3"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.458"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
```

```

        app:layout_constraintVertical_bias="0.058" />

<EditText
    android:id="@+id/editTextText"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="88dp"
    android:layout_marginTop="40dp"
    android:ems="10"
    android:hint="Enter the student ID:"
    android:inputType="text"
    android:textColorHint="#64A647"
    app:layout_constraintStart_toStartOf="@+id/textView"
    app:layout_constraintTop_toBottomOf="@+id/textView" />

<EditText
    android:id="@+id/editTextText2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="9dp"
    android:ems="10"
    android:hint="Enter the student name:"
    android:inputType="text"
    android:textColorHint="#64A647"
    app:layout_constraintStart_toStartOf="@+id/editTextText"
    app:layout_constraintTop_toBottomOf="@+id/editTextText" />

<EditText
    android:id="@+id/editTextText3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="11dp"
    android:ems="10"
    android:hint="Class/Section"
    android:inputType="text"
    android:textColorHint="#64A647"
    app:layout_constraintStart_toStartOf="@+id/editTextText2"
    app:layout_constraintTop_toBottomOf="@+id/editTextText2" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:layout_marginTop="8dp"
    android:gravity="center"
    android:text="Gender"
    android:textColor="#CF781B"
    android:textSize="16sp"
    android:textStyle="bold"
    app:layout_constraintStart_toStartOf="@+id/editTextText3"
    app:layout_constraintTop_toBottomOf="@+id/editTextText3" />

<RadioGroup
    android:id="@+id/radioGroup"
    android:layout_width="147dp"
    android:layout_height="95dp"
    android:layout_marginBottom="17dp"
    app:layout_constraintBottom_toTopOf="@+id/textView3"
    app:layout_constraintEnd_toEndOf="@+id/editTextText3"
    app:layout_constraintHorizontal_bias="0.425"

```

```
app:layout_constraintStart_toStartOf="@+id/textView2"
app:layout_constraintTop_toBottomOf="@+id/textView"
app:layout_constraintVertical_bias="0.975">
```

```
<RadioButton
    android:id="@+id/radioButton2"
    android:layout_width="match_parent"
    android:layout_height="36dp"
    android:text="Female" />
```

```
<RadioButton
    android:id="@+id/radioButton"
    android:layout_width="match_parent"
    android:layout_height="31dp"
    android:checked="true"
    android:text="Male" />
```

```
</RadioGroup>
```

```
<Spinner
    android:id="@+id/spinner"
    android:layout_width="233dp"
    android:layout_height="0dp"
    android:layout_marginBottom="24dp"
    app:layout_constraintBottom_toTopOf="@+id/button2"
    app:layout_constraintEnd_toEndOf="@+id/textView3"
    app:layout_constraintStart_toStartOf="@+id/textView3"
    app:layout_constraintTop_toBottomOf="@+id/textView3" />
```

```
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="116dp"
    android:backgroundTint="@color/black"
    android:text="Submit"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="@+id/textView2"
    app:layout_constraintHorizontal_bias="1.0"
    app:layout_constraintStart_toStartOf="@+id/spinner" />
```

```
<Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="125dp"
    android:layout_marginEnd="125dp"
    android:backgroundTint="@color/black"
    android:text="Reset"
    app:layout_constraintEnd_toEndOf="@+id/textView"
    app:layout_constraintStart_toStartOf="@+id/button"
    app:layout_constraintTop_toTopOf="@+id/button" />
```

```
<TextView
    android:id="@+id/textView4"
    android:layout_width="159dp"
    android:layout_height="89dp"
    android:layout_marginStart="144dp"
    android:layout_marginBottom="35dp"
    android:text="details"
    app:layout_constraintBottom_toBottomOf="parent"
```

```

        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/button2"
        app:layout_constraintVertical_bias="0.0" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

strings.xml

```

<resources>
    <string name="app_name">ElectiveSelection</string>
    <string-array name="courses">
        <item>Introduction to nano technology</item>
        <item>Spatial stories</item>
        <item>Indian Literature </item>
        <item>Polymer clay</item>
        <item>Smart sensors for engineers</item>
        <item>Gender and equality in India</item>
        <item>Energy and sustainability</item>
        <item>Marketing fundamentals for engineers</item>
        <item>Smart materials for iot</item>
        <item>Introduction to banking</item>
    </string-array>
</resources>

```

AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.ElectiveSelection"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true"
            android:icon="@mipmap/img">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER"
            />
            </intent-filter>
        </activity>
    </application>

</manifest>

```

2.JAVA File

```
package com.example.electiveselection;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    EditText editTextText;
    EditText editTextText2;
    EditText editTextText3;
    RadioGroup radioGroup;
    RadioButton radioButton;
    Spinner spinner;
    Button button;
    Button button2;
    TextView textView4;
    String SelectedCourse;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        editTextText=findViewById(R.id.editTextText);
        editTextText2=findViewById(R.id.editTextText2);
        editTextText3=findViewById(R.id.editTextText3);
        radioGroup=findViewById(R.id.radioGroup);
        spinner=findViewById(R.id.spinner);
        button=findViewById(R.id.button);
        button2=findViewById(R.id.button2);
        textView4=findViewById(R.id.textView4);
        ArrayAdapter adapter=new
ArrayAdapter(this, android.R.layout.simple_spinner_dropdown_item, getResources().getTextArray(R.array.courses));

        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        spinner.setAdapter(adapter);
        spinner.setOnItemSelectedListener(new
AdapterView.OnItemSelectedListener() {
            @Override
            public void onItemSelected(AdapterView<?> adapterView, View
view, int i, long l) {
                SelectedCourse=adapterView.getItemAtPosition(i).toString();
            }

            @Override
```

```

        public void onNothingSelected(AdapterView<?> adapterView) {
        }
    });
    button.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            int id=radioGroup.getCheckedRadioButtonId();
            radioButton=findViewById(id);
            textView4.setText("SID:
"+editTextText.getText().toString()+"\nSNAME
"+editTextText2.getText().toString()+"\nsec:
"+editTextText3.getText().toString()+"\ngender:
"+radioButton.getText().toString());
            Toast.makeText(MainActivity.this, "selected course is
"+SelectedCourse, Toast.LENGTH_LONG).show();

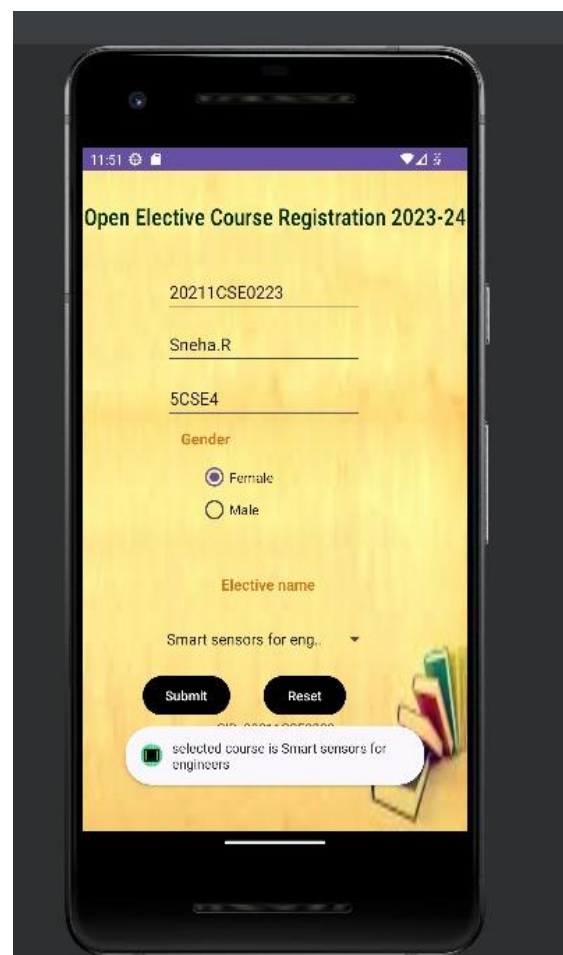
        }
    });
    button2.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            editTextText.setText(" ");
            editTextText2.setText(" ");
            editTextText3.setText(" ");
            textView4.setText(" ");
        }
    });
}
}

```

3.Output in the Emulator









A smartphone mockup displaying a registration form titled "Open Elective Course Registration 2023-24". The form is set against a yellow background with a faint book illustration. It includes input fields for a name and a "Gender" section with radio buttons for "Female" and "Male" (the latter is selected). Below is an "Elective name" dropdown menu currently showing "Introduction to nano te...". At the bottom are "Submit" and "Reset" buttons. The phone's status bar at the top shows the time as 11:54 and various icons.

11:54

Open Elective Course Registration 2023-24

Gender

☐ Female

☒ Male

Elective name

Introduction to nano te...

Submit Reset