

#### **Taran**

### CSE-4002 LAB TEST

Academic year: 2020-2021 Semester: WIN

Faculty Name: Dr. Prabha Selvaraj Mam Date: 16/11/2021

Student name: Taran Mamidala Reg. no.: 19BCE7346

# **Question:**

Design the below application.

On clicking submit, if MPC marks average is less than 70 then display "Not eligible for Btech", if MPC marks >=70, then check the VITEEE rank. If the VITEEE rank is <20000 and the radio button selected is VIT-Vellore else if VITEEE rank is <30000 and radio button selected is VIT-Chennai else if VITEEE rank is <40000 and radio button selected is VIT-AP else if VITEEE rank is >=40000 and radio button selected is VIT-Bhopal, then raise an Alert "Seat Allotted" else "Seat Not Allotted"

### CODE:

#### 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"
   tools:context=".MainActivity">
   <TextView
       android:id="@+id/textView"
       android:layout width="230dp"
       android:layout_height="55dp"
       android:layout marginTop="68dp"
       android:text="VITEEE 2021"
       android: textAlignment="center"
       android: textSize="20sp"
```

```
VIT-AP UNIVERSITY
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android: textStyle="bold"
    app:layout_constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.497"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent" />
<EditText
    android:id="@+id/name"
    android:layout width="232dp"
    android:layout height="48dp"
    android:layout_marginStart="32dp"
    android:layout marginTop="40dp"
    android:ems="10"
    android:hint="Name"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.412"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/textView" />
<EditText
    android:id="@+id/marks"
    android:layout width="218dp"
    android:layout height="52dp"
    android:layout marginTop="26dp"
    android:ems="10"
    android:hint="MPC Average marks"
    android:inputType="number"
    android:minHeight="48dp"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.5"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/rank" />
<Button
    android:id="@+id/submit"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginBottom="44dp"
    android:text="SUBMIT"
    android:textColorHighlight="#FF6F00"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.461"
    app:layout_constraintStart_toStartOf="parent" />
```





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```
android:id="@+id/rank"
    android:layout width="218dp"
    android:layout height="50dp"
    android:layout marginStart="32dp"
    android:layout marginTop="40dp"
    android:ems="10"
    android:hint="VITEEE RANK"
    android:inputType="number"
    android:minHeight="48dp"
    android:textStyle=""
    app:layout_constraintEnd toEndOf="@+id/marks"
    app:layout constraintHorizontal bias="1.0"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/name" />
<RadioButton
   android:id="@+id/radioButton5"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout marginStart="43dp"
    android:text="VIT-Vellore"
    android:textColor="#0D47A1"
    app:layout constraintBaseline toBaselineOf="@+id/radioButton7"
    app:layout constraintStart toStartOf="parent" />
< Radio Button
    android:id="@+id/radioButton6"
    android:layout width="104dp"
    android:layout height="48dp"
    android:layout marginStart="43dp"
    android:layout marginTop="43dp"
    android: text="VIT-Ap"
    android: textColor="#B71C1C"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/radioButton5" />
< Radio Button
    android:id="@+id/radioButton7"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginTop="71dp"
    android:layout marginEnd="69dp"
    android:text="VIT-chennai"
    android:textColor="#62AEEA"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/marks" />
```



```
android:id="@+id/radioButton8"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="40dp"
android:text="VIT-Bhopal"
android:textColor="#68D33F"
app:layout_constraintStart_toStartOf="@+id/radioButton7"
app:layout_constraintTop_toBottomOf="@+id/radioButton7" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

#### MainActivity.java:

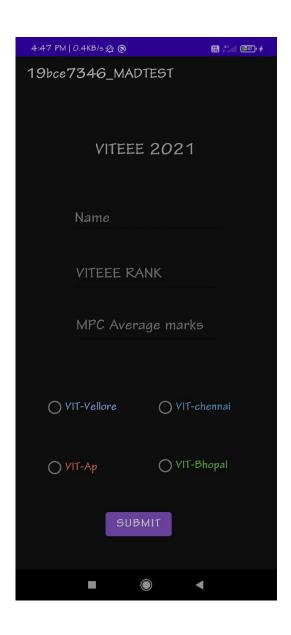
```
package com.example.19bce7346 madtest;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  private EditText name;
  private EditText rank;
  private EditText mpc;
  private RadioButton vellore;
  private RadioButton chennai;
  private RadioButton ap;
  private RadioButton bhopal;
  private Button submit;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity_main);
       name =findViewById(R.id.name);
       mpc =findViewById(R.id.marks);
```

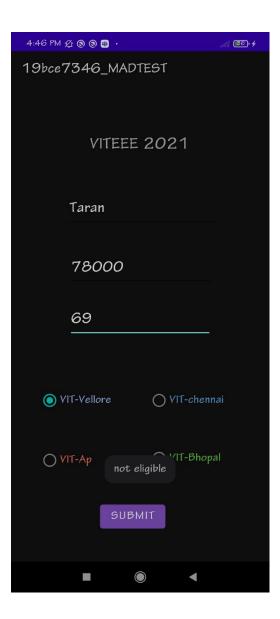


```
rank =findViewById(R.id.rank);
       vellore =findViewById(R.id.radioButton5);
       chennai =findViewById(R.id.radioButton6);
       ap =findViewById(R.id.radioButton7);
       bhopal =findViewById(R.id.radioButton8);
       submit =findViewById(R.id.submit);
       submit.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View view) {
               int a=Integer.parseInt(mpc.getText().toString());
               int b =Integer.parseInt(rank.getText().toString());
               if (a <=70) {
                   Toast.makeText (MainActivity.this, "not eligible",
Toast.LENGTH SHORT) .show();
               if (a >=70) {
                   if(b <20000){
                       vellore.setChecked(true);
                       Toast.makeText (MainActivity.this, "seat allocated",
Toast. LENGTH SHORT) . show();
                   else if (b>20000 && b<=30000) {
                       ap.setChecked(true);
                       Toast.makeText(MainActivity.this, "seat allocated",
Toast. LENGTH SHORT) . show();
                   else if(b >30000 && b <=40000){
                       chennai.setChecked(true);
                       Toast.makeText(MainActivity.this, "seat allocated",
Toast. LENGTH SHORT) . show();
                   else if (b >= 40000)
                       bhopal.setChecked(true);
                       Toast.makeText(MainActivity.this, "seat allocated",
Toast. LENGTH SHORT) . show();
       });
```

```
}
```

# OUTPUT:







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