VIT-AP
UNIVERSITY

CSE- 4002 LAB-3 Assignment

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Covid App

Design an COVID APP to get the symptoms and analyse it to print the diagnostic result. Assume your condition for covid, cough and fever and display the result in mainActivity2

activity_main.xml

```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=".MainActivity">

    <TextView
        android:id="@+id/tv1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="EnterName"
        android:textSize="20sp"
        app:layout_constraintBottom_toTopOf="@+id/tv2"
        app:layout_constraintEnd_toStartOf="@+id/editTextTextPersonName"
        app:layout_constraintHorizontal_bias="0.29"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.773" />

    <TextView
        android:id="@+id/tv2"
```

```xml
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="52dp"
        android:text="Place"
        android:textSize="20sp"
        app:layout_constraintBottom_toTopOf="@+id/tv3"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.088"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/tv3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="32dp"
        android:layout_marginBottom="44dp"
        android:text="Aadhar Number"
        android:textSize="20sp"
        app:layout_constraintBottom_toTopOf="@+id/textView4"
        app:layout_constraintEnd_toStartOf="@+id/editTextTextPersonName3"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="160dp"
        android:layout_marginBottom="320dp"
        android:text="symptoms"
        android:textSize="16sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="186dp"
        android:layout_height="48dp"
        android:ems="10"
        android:hint="Name"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toTopOf="@+id/editTextTextPersonName2"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.933"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.871" />
```

```xml
<EditText
    android:id="@+id/editTextTextPersonName2"
    android:layout_width="183dp"
    android:layout_height="48dp"
    android:layout_marginBottom="456dp"
    android:ems="10"
    android:hint="place"
    android:inputType="textPersonName"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.888"
    app:layout_constraintStart_toEndOf="@+id/tv2" />

<EditText
    android:id="@+id/editTextTextPersonName3"
    android:layout_width="186dp"
    android:layout_height="48dp"
    android:layout_marginEnd="16dp"
    android:layout_marginBottom="384dp"
    android:ems="10"
    android:hint="Aadhar no"
    android:inputType="textPersonName"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent" />

<CheckBox
    android:id="@+id/cb1"
    android:layout_width="114dp"
    android:layout_height="50dp"
    android:layout_marginEnd="68dp"
    android:layout_marginBottom="208dp"
    android:text="Cold Cough"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toStartOf="@+id/cb2" />

<CheckBox
    android:id="@+id/cb2"
    android:layout_width="111dp"
    android:layout_height="60dp"
    android:layout_marginEnd="60dp"
    android:layout_marginBottom="208dp"
    android:text="Fever"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent" />

<CheckBox
    android:id="@+id/cb3"
    android:layout_width="111dp"
```

```xml
        android:layout_height="48dp"
        android:layout_marginStart="56dp"
        android:layout_marginBottom="128dp"
        android:text="No Smell"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/cb1"
        app:layout_constraintVertical_bias="0.545" />

    <CheckBox
        android:id="@+id/cb4"
        android:layout_width="118dp"
        android:layout_height="57dp"
        android:layout_marginBottom="128dp"
        android:text="vomittings"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.571"
        app:layout_constraintStart_toEndOf="@+id/cb3"
        app:layout_constraintTop_toBottomOf="@+id/cb2"
        app:layout_constraintVertical_bias="0.523" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="56dp"
        android:text="Submit"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.467"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView12"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="72dp"
        android:background="#FF872B"
        android:text="COVID APP"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
```

```xml
            android:id="@+id/textView13"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginStart="16dp"
            android:layout_marginTop="24dp"
            android:background="@color/teal_200"
            android:text="19BCE7346"
            android:textSize="16sp"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent" />

    <TextView
            android:id="@+id/textView14"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="24dp"
            android:background="@color/teal_200"
            android:text="TARAN"
            android:textSize="16sp"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.847"
            app:layout_constraintStart_toEndOf="@+id/textView13"
            app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```java
package com.example.mablab4covidapp;

import androidx.appcompat.app.AppCompatActivity;

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.Toast;

    public class MainActivity extends AppCompatActivity {
        EditText name, place, ano;
        CheckBox cold, fever, nosmell, vomit;
        Button submit;
        String symptoms;
        String diagnosis;
        int aano;
```

```java
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    name = findViewById(R.id.editTextTextPersonName);
    place = findViewById(R.id.editTextTextPersonName2);
    ano = findViewById(R.id.editTextTextPersonName3);
    cold = findViewById(R.id.cb1);
    fever = findViewById(R.id.cb2);
    nosmell = findViewById(R.id.cb3);
    vomit = findViewById(R.id.cb4);
    submit = findViewById(R.id.button);
    submit.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            aano = Integer.parseInt(ano.getText().toString());
            if (cold.isChecked() && !fever.isChecked() && !nosmell.isChecked() &&
!vomit.isChecked()) {
                symptoms = "Cold cough";
                diagnosis = "only cold";
                Toast.makeText(getApplicationContext(), "onlycold",
Toast.LENGTH_SHORT).show();
            }
            if (cold.isChecked() && fever.isChecked() &&
!nosmell.isChecked() && !vomit.isChecked()) {
                Toast.makeText(getApplicationContext(), "normalfever",
Toast.LENGTH_SHORT).show();
                symptoms = "Cold cough" + "\n" + "fever";
                diagnosis = "normal fever";
            }
            if (cold.isChecked() && fever.isChecked() &&
!nosmell.isChecked() && vomit.isChecked()) {
                Toast.makeText(getApplicationContext(), "viralfever",
Toast.LENGTH_SHORT).show();
                symptoms = "Cold cough" + "\n" + "fever" + "\n" +
"vomiting";
                diagnosis = "Viral fever";
            }
            if (cold.isChecked() && fever.isChecked() &&
nosmell.isChecked() && vomit.isChecked()) {
                Toast.makeText(getApplicationContext(), "covid",
Toast.LENGTH_SHORT).show();
                symptoms = "Cold cough" + "\n" + "fever" + "\n" +
"vomiting" + "\n" + "nosmell";
                diagnosis = "covid";
            } //pass info to second page
            Intent intent = new Intent(getApplicationContext(),
MainActivity3.class);
```

```
                        Bundle b = new Bundle();
                        b.putString("name", name.getText().toString());
                        b.putString("place", place.getText().toString());
                        b.putInt("aadhar", aano); //int
                        b.putString("sym", symptoms);
                        b.putString("dia", diagnosis);
                        intent.putExtras(b);
                        startActivity(intent);
                    }
                });
            }
        }
```

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=".MainActivity2">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="44dp"
        android:layout_marginBottom="48dp"
        android:text="Name :"
        android:textColor="#090909"
        app:layout_constraintBottom_toTopOf="@+id/textView2"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.977" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="44dp"
        android:layout_marginBottom="36dp"
        android:text="Place :"
        android:textColor="#131313"
        app:layout_constraintBottom_toTopOf="@+id/textView3"
```

```xml
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="44dp"
        android:layout_marginBottom="364dp"
        android:text="Aadhar Number :"
        android:textColor="#131313"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="300dp"
        android:text="Symptoms"
        android:textColor="#EC1F1F"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.186"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView6"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="224dp"
        android:text="Diagnosis Result"
        android:textColor="#FF9800"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView7"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="48dp"
        android:text="Covid Report"
        android:textColor="#9C27B0"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.457"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
```

```xml
    <TextView
        android:id="@+id/textView8"
        android:layout_width="127dp"
        android:layout_height="27dp"
        android:layout_marginBottom="40dp"
        android:text="TextView"
        app:layout_constraintBottom_toTopOf="@+id/textView9"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.644"
        app:layout_constraintStart_toEndOf="@+id/textView" />

    <TextView
        android:id="@+id/textView9"
        android:layout_width="129dp"
        android:layout_height="23dp"
        android:layout_marginBottom="32dp"
        android:text="TextView"
        app:layout_constraintBottom_toTopOf="@+id/textView10"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.659"
        app:layout_constraintStart_toEndOf="@+id/textView2" />

    <TextView
        android:id="@+id/textView10"
        android:layout_width="129dp"
        android:layout_height="22dp"
        android:layout_marginBottom="364dp"
        android:text="TextView"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.397"
        app:layout_constraintStart_toEndOf="@+id/textView3" />

    <TextView
        android:id="@+id/textView11"
        android:layout_width="86dp"
        android:layout_height="25dp"
        android:text="TextView"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.521"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView6"
        app:layout_constraintVertical_bias="0.266" />
</androidx.constraintlayout.widget.ConstraintLayout>
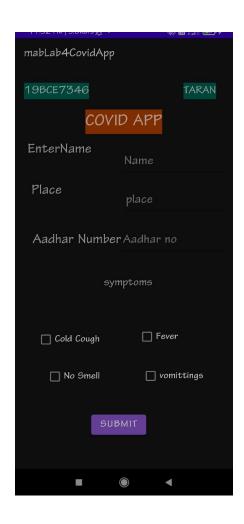```

**MainActivity2.java**

------------------------

```java
package com.example.mablab4covidapp;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.TextView;
        public class MainActivity2 extends AppCompatActivity {
            TextView name, place, ano;
            TextView sym, dia;
            @Override
            protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
                setContentView(R.layout.activity_main3);
                name = findViewById(R.id.editTextTextPersonName);
                place = findViewById(R.id.editTextTextPersonName2);
                ano = findViewById(R.id.editTextTextPersonName3);
                sym = findViewById(R.id.textView8);
                dia = findViewById(R.id.textView10);
                Intent intent = getIntent();
                Bundle b = intent.getExtras();
                name.setText(b.getString("name"));
                place.setText(b.getString("place"));
                ano.setText(String.valueOf(b.getInt("aadhar", 0)));
                sym.setText(b.getString("sym"));
                dia.setText(b.getString("dia"));
            }
        }
```
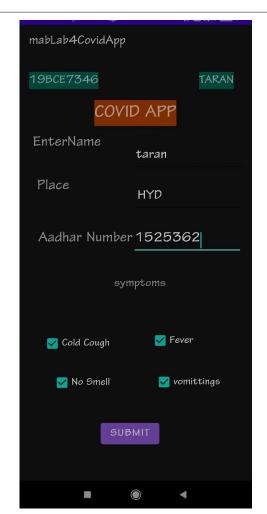
OUTPUT:

Screen 1

mabLab4CovidApp

19BCE7346   TARAN

COVID APP

EnterName
Name

Place
place

Aadhar Number Aadhar no

symptoms

☐ Cold Cough   ☐ Fever

☐ No Smell   ☐ vomittings

SUBMIT

Screen 2

mabLab4CovidApp

19BCE7346   TARAN

COVID APP

EnterName
taran

Place
HYD

Aadhar Number 1525362

symptoms

☑ Cold Cough   ☑ Fever

☑ No Smell   ☑ vomittings

SUBMIT

Screen 3

Covid Report

Name :   TextView

Place :   TextView

Aadhar Number :   TextView

Symptoms

Diagnosis Result

TextView