

CSE- 4002 LAB-3 Assignment

Academic year: 2020-2021 Semester: WIN

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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 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/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"
```





```
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" />
```

<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"
```

```
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" />
```





```
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
 -----
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;



```
@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</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=".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"
```





```
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" />
```



```
<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>
```



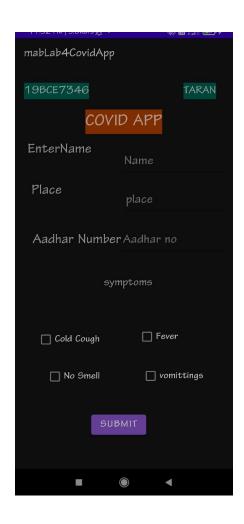
```
package com.example.mablab4covidapp;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.TextView;
       public class MainActivity2 extends AppCompatActivity {
           TextView name, place, 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"));
           }
       }
```

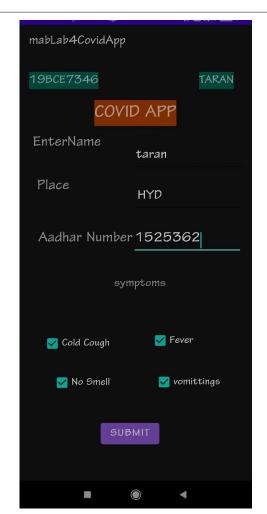
OUTPUT:

19BCE7346



Taran





Covid Report

Name: TextView

Place: TextView

Aadhar Number: TextView

Symptoms

Diagnosis Result

TextView