

Mobile Application Development LAB

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Design an COVIDAPP 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

xml1:

```
<?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/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Enter Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.198"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.105" />
    <EditText
        android:id="@+id/e1"
        android:layout_width="157dp"
        android:layout_height="46dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.883"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.087" />
    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```

android:text="Place"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.212"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.195" />
<EditText
android:id="@+id/e2"
android:layout_width="159dp"
android:layout_height="41dp"
android:ems="10"
android:hint="place"
android:inputType="textPersonName"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.884"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.169" />
<TextView
android:id="@+id/textView3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Aadhaar number"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.218"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.265" />
<EditText
android:id="@+id/e3"
android:layout_width="159dp"
android:layout_height="40dp"
android:ems="10"
android:hint="Aadhaar no"
android:inputType="textPersonName"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.884"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.243" />
<TextView
android:id="@+id/textView4"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Symptoms"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.194"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.353" />
<CheckBox
android:id="@+id/c1"
android:layout_width="130dp"
android:layout_height="46dp"
android:text="Cold Cough"
app:layout_constraintBottom_toBottomOf="parent"

```

```

app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.369"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.457" />
<CheckBox
    android:id="@+id/c2"
    android:layout_width="99dp"
    android:layout_height="47dp"
    android:text="Fever"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.859"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.457" />
<CheckBox
    android:id="@+id/c3"
    android:layout_width="140dp"
    android:layout_height="40dp"
    android:text="No smell"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.373"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.591" />
<CheckBox
    android:id="@+id/c4"
    android:layout_width="104dp"
    android:layout_height="36dp"
    android:text="Vomiting"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.857"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.596" />
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Submit"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.554"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.715" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

java1:

```

package com.example.covidapp;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.content.Intent;

```

```

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 e1,e2,e3;
    String ee1,ee2,ee3;
    String cb1,cb2,cb3,cb4;
    CheckBox c1,c2,c3,c4;
    // String cb1="Cold Cough";
    // String cb2="Cold Cough";
    // String cb3="Cold Cough";
    // String cb4="Cold Cough";
    Button button;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        e1=findViewById(R.id.e1);
        e2=findViewById(R.id.e2);
        e3=findViewById(R.id.e3);
        c1=(CheckBox)findViewById(R.id.c1);
        c2=(CheckBox)findViewById(R.id.c2);
        c3=(CheckBox)findViewById(R.id.c3);
        c4=(CheckBox)findViewById(R.id.c4);
        button=(Button)findViewById(R.id.button);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                ee1=e1.getText().toString();
                ee2=e2.getText().toString();
                ee3=e3.getText().toString();
                Intent intent=new
                Intent(MainActivity.this,MainActivity2.class);
                intent.putExtra("keyname",ee1);
                intent.putExtra("keyplace",ee2);
                intent.putExtra("keyaadhaar",ee3);
                if(c1.isChecked() &&c2.isChecked() &&c3.isChecked() &&
                c4.isChecked()){
                    // Toast.makeText(getApplicationContext(),"Covid
                    //positive",Toast.LENGTH_SHORT).show();
                    String res = "Covid Positive";
                    intent.putExtra("keyresult",res);
                    String cb1 = "Cold Cough";
                    String cb2 = "Fever";
                    String cb3 = "No smell";
                    String cb4 = "Vomiting";
                    intent.putExtra("keycb1",cb1);
                    intent.putExtra("keycb2",cb2);
                    intent.putExtra("keycb3",cb3);
                    intent.putExtra("keycb4",cb4);
                }
                else if(!c1.isChecked() &&c2.isChecked() &&c3.isChecked()
                &&c4.isChecked()){
                    String res = "Covid Negative";
                    intent.putExtra("keyresult",res);
                    String cb1 = " ";
                    String cb2 = "Fever";
                    String cb3 = "No smell";
                    String cb4 = "Vomiting";
                }
            }
        });
    }
}

```

```

intent.putExtra("keycb1", cb1);
intent.putExtra("keycb2", cb2);
intent.putExtra("keycb3", cb3);
intent.putExtra("keycb4", cb4);
}
else if(c1.isChecked() && !c2.isChecked() &&c3.isChecked() &&
c4.isChecked()){
    String res = "Covid Negative";
intent.putExtra("keyresult", res);
String cb1 = "Cold Cough";
String cb2 = " ";
String cb3 = "No smell";
String cb4 = "Vomiting";
intent.putExtra("keycb1", cb1);
intent.putExtra("keycb2", cb2);
intent.putExtra("keycb3", cb3);
intent.putExtra("keycb4", cb4);
}
else if(c1.isChecked() &&c2.isChecked() && !c3.isChecked() &&
c4.isChecked()){
    String res = "Covid Negative";
intent.putExtra("keyresult", res);
String cb1 = "Cold Cough";
String cb2 = "Fever";
String cb3 = " ";
String cb4 = "Vomiting";
intent.putExtra("keycb1", cb1);
intent.putExtra("keycb2", cb2);
intent.putExtra("keycb3", cb3);
intent.putExtra("keycb4", cb4);
}
else if(c1.isChecked() &&c2.isChecked() &&c3.isChecked() &&
!c4.isChecked()){
    String res = "Covid Negative";
intent.putExtra("keyresult", res);
String cb1 = "Cold Cough";
String cb2 = "Fever";
String cb3 = "No smell";
String cb4 = " ";
intent.putExtra("keycb1", cb1);
intent.putExtra("keycb2", cb2);
intent.putExtra("keycb3", cb3);
intent.putExtra("keycb4", cb4);
}
else if(!c1.isChecked() && !c2.isChecked() &&c3.isChecked() &&
c4.isChecked()){
    String res = "Covid Negative";
intent.putExtra("keyresult", res);
String cb1 = " ";
String cb2 = " ";
String cb3 = "No smell";
String cb4 = "vomiting ";
intent.putExtra("keycb1", cb1);
intent.putExtra("keycb2", cb2);
intent.putExtra("keycb3", cb3);
intent.putExtra("keycb4", cb4);
}
else if(!c1.isChecked() &&c2.isChecked() && !c3.isChecked() &&
c4.isChecked()){
    String res = "Covid Negative";
intent.putExtra("keyresult", res);

```

```

String cb1 = " ";
String cb2 = "Fever ";
String cb3 = " ";
String cb4 = "vomiting ";
intent.putExtra("keycb1", cb1);
intent.putExtra("keycb2", cb2);
intent.putExtra("keycb3", cb3);
intent.putExtra("keycb4", cb4);
}
else if(!c1.isChecked() && c2.isChecked() && c3.isChecked() &&
        !c4.isChecked()){
    String res = "Covid Negative";
    intent.putExtra("keyresult", res);
    String cb1 = " ";
    String cb2 = "Fever ";
    String cb3 = "No smell ";
    String cb4 = " ";
    intent.putExtra("keycb1", cb1);
    intent.putExtra("keycb2", cb2);
    intent.putExtra("keycb3", cb3);
    intent.putExtra("keycb4", cb4);
}
else if(c1.isChecked() && !c2.isChecked() && !c3.isChecked() &&
        c4.isChecked()){
    String res = "Covid Negative";
    intent.putExtra("keyresult", res);
    String cb1 = "Cold cough";
    String cb2 = " ";
    String cb3 = " ";
    String cb4 = "Vomiting";
    intent.putExtra("keycb1", cb1);
    intent.putExtra("keycb2", cb2);
    intent.putExtra("keycb3", cb3);
    intent.putExtra("keycb4", cb4);
}
else if(c1.isChecked() && !c2.isChecked() && c3.isChecked() &&
        !c4.isChecked()){
    String res = "Covid Negative";
    intent.putExtra("keyresult", res);
    String cb1 = "Cold cough";
    String cb2 = " ";
    String cb3 = " No smell";
    String cb4 = "";
    intent.putExtra("keycb1", cb1);
    intent.putExtra("keycb2", cb2);
    intent.putExtra("keycb3", cb3);
    intent.putExtra("keycb4", cb4);
}
else if(c1.isChecked() && c2.isChecked() && !c3.isChecked() &&
        !c4.isChecked()){
    String res = "Covid Negative";
    intent.putExtra("keyresult", res);
    String cb1 = "Cold cough";
    String cb2 = "Fever";
    String cb3 = " ";
    String cb4 = "";
    intent.putExtra("keycb1", cb1);
    intent.putExtra("keycb2", cb2);
    intent.putExtra("keycb3", cb3);
    intent.putExtra("keycb4", cb4);
}
}

```

```

else if(c1.isChecked() && !c2.isChecked() && !c3.isChecked() &&
        !c4.isChecked()){
    String res = "Covid Negative";
    intent.putExtra("keyresult",res);
    String cb1 = "Cold cough";
    String cb2 = " ";
    String cb3 = " ";
    String cb4 = " ";
    intent.putExtra("keycb1",cb1);
    intent.putExtra("keycb2",cb2);
    intent.putExtra("keycb3",cb3);
    intent.putExtra("keycb4",cb4);
}
else if(!c1.isChecked() && c2.isChecked() && !c3.isChecked() &&
        !c4.isChecked()){
    String res = "Covid Negative";
    intent.putExtra("keyresult",res);
    String cb1 = " ";
    String cb2 = "Fever ";
    String cb3 = " ";
    String cb4 = " ";
    intent.putExtra("keycb1",cb1);
    intent.putExtra("keycb2",cb2);
    intent.putExtra("keycb3",cb3);
    intent.putExtra("keycb4",cb4);
}
else if(!c1.isChecked() && !c2.isChecked() && c3.isChecked() &&
        !c4.isChecked()){
    String res = "Covid Negative";
    intent.putExtra("keyresult",res);
    String cb1 = " ";
    String cb2 = " ";
    String cb3 = "No smell ";
    String cb4 = " ";
    intent.putExtra("keycb1",cb1);
    intent.putExtra("keycb2",cb2);
    intent.putExtra("keycb3",cb3);
    intent.putExtra("keycb4",cb4);
}
else if(!c1.isChecked() && !c2.isChecked() && !c3.isChecked()
&& c4.isChecked()){
    String res = "Covid Negative";
    intent.putExtra("keyresult",res);
    String cb1 = " ";
    String cb2 = " ";
    String cb3 = " ";
    String cb4 = "Vomiting ";
    intent.putExtra("keycb1",cb1);
    intent.putExtra("keycb2",cb2);
    intent.putExtra("keycb3",cb3);
    intent.putExtra("keycb4",cb4);
}
else{
    // Toast.makeText(getApplicationContext(),"Covid
    // Negative",Toast.LENGTH_SHORT).show();
    String res = "Covid Negative";
    intent.putExtra("keyresult",res);
    if(c1.isChecked()) {
        String cb1 = "Cold Cough";
    }
    else{

```

```

        String cb1 = " ";
    }
    if(c2.isChecked()) {
        String cb2 = "Fever";
    }
    else{
        String cb2 = " ";
    }
    if(c3.isChecked()) {
        String cb3 = "No smell";
    }
    else{
        String cb3 = " ";
    }
    if(c4.isChecked()) {
        String cb4 = "Vomiting";
    }
    else{
        String cb4 = " ";
    }
    }
    startActivity(intent);
}
    });
}
}

```

xml2:

```

<?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/e11"
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:layout_marginTop="42dp"
        android:layout_marginBottom="18dp"
        app:autoSizeMaxTextSize="45dp"
        app:layout_constraintBottom_toTopOf="@+id/e12"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="@+id/e12"
        app:layout_constraintTop_toTopOf="parent" />
    <TextView
        android:id="@+id/e12"
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:layout_marginBottom="10dp"
        app:layout_constraintBottom_toTopOf="@+id/e13"
        app:layout_constraintEnd_toEndOf="@+id/e13"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="@+id/e13"
        app:layout_constraintTop_toBottomOf="@+id/e11" />
    <TextView
        android:id="@+id/e13"

```



```
android:layout_width="0dp"
android:layout_height="0dp"
android:layout_marginStart="102dp"
android:layout_marginBottom="22dp"
app:layout_constraintBottom_toTopOf="@+id/textView18"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/e12" />
<TextView
android:id="@+id/c13"
android:layout_width="0dp"
android:layout_height="43dp"
android:layout_marginStart="91dp"
android:layout_marginEnd="30dp"
app:layout_constraintBaseline_toBaselineOf="@+id/c14"
app:layout_constraintEnd_toStartOf="@+id/c14"
app:layout_constraintStart_toStartOf="parent" />
<TextView
android:id="@+id/c14"
android:layout_width="0dp"
android:layout_height="0dp"
android:layout_marginEnd="110dp"
android:layout_marginBottom="105dp"
app:layout_constraintBottom_toTopOf="@+id/result"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toEndOf="@+id/c13"
app:layout_constraintTop_toBottomOf="@+id/c12" />
<TextView
android:id="@+id/textView18"
android:layout_width="0dp"
android:layout_height="0dp"
android:layout_marginBottom="70dp"
android:text="Symptoms"
app:layout_constraintBottom_toTopOf="@+id/c12"
app:layout_constraintEnd_toEndOf="@+id/textView19"
app:layout_constraintStart_toStartOf="@+id/textView19"
app:layout_constraintTop_toBottomOf="@+id/e13" />
<TextView
android:id="@+id/textView19"
android:layout_width="155dp"
android:layout_height="42dp"
android:layout_marginStart="43dp"
android:layout_marginEnd="44dp"
android:text="Diagnosis result"
app:layout_constraintBaseline_toBaselineOf="@+id/result"
app:layout_constraintEnd_toStartOf="@+id/result"
app:layout_constraintStart_toStartOf="parent" />
<TextView
android:id="@+id/result"
android:layout_width="115dp"
android:layout_height="28dp"
android:layout_marginEnd="110dp"
android:layout_marginBottom="245dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toEndOf="@+id/textView19"
app:layout_constraintTop_toBottomOf="@+id/c14" />
<TextView
android:id="@+id/c11"
android:layout_width="0dp"
android:layout_height="43dp"
```

```

android:layout_marginStart="91dp"
android:layout_marginEnd="30dp"
app:layout_constraintBaseline_toBaselineOf="@+id/c12"
app:layout_constraintEnd_toStartOf="@+id/c12"
app:layout_constraintStart_toStartOf="parent" />
<TextView
android:id="@+id/c12"
android:layout_width="0dp"
android:layout_height="0dp"
android:layout_marginEnd="110dp"
android:layout_marginBottom="33dp"
app:layout_constraintBottom_toTopOf="@+id/c14"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toEndOf="@+id/c11"
app:layout_constraintTop_toBottomOf="@+id/textView18"/>
</androidx.constraintlayout.widget.ConstraintLayout>

```

Java2:

```

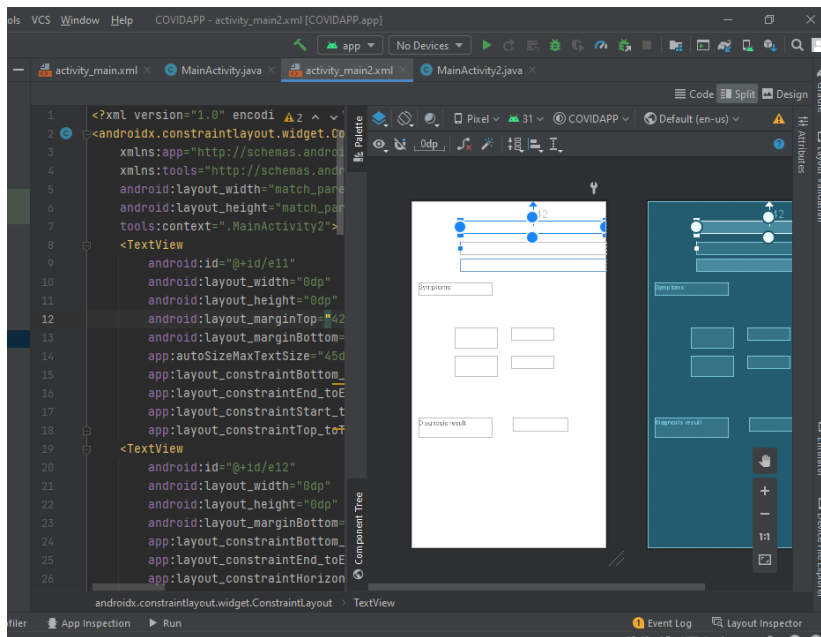
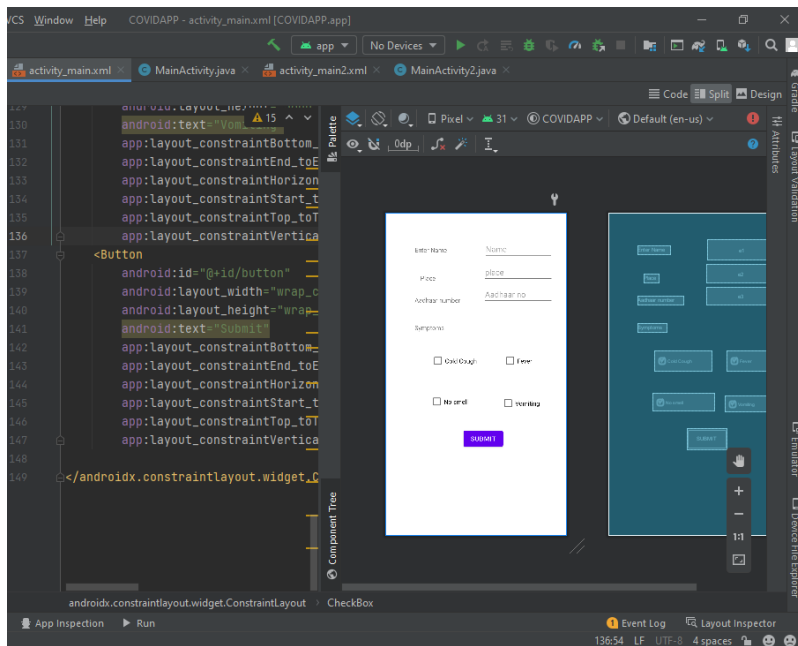
package com.example.covidapp;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {
    private TextView e11,e12,e13, c11,c12,c13,c14,result;
    // TextView c11,c12,c13,c14;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        e11=findViewById(R.id.e11);
        e12=findViewById(R.id.e12);
        e13=findViewById(R.id.e13);
        result=findViewById(R.id.result);
        c11=findViewById(R.id.c11);
        c12=findViewById(R.id.c12);
        c13=findViewById(R.id.c13);
        c14=findViewById(R.id.c14);
        String ee1=getIntent().getStringExtra("keyname");
        e11.setText(ee1);
        String ee2=getIntent().getStringExtra("keyplace");
        e12.setText(ee2);
        String ee3=getIntent().getStringExtra("keyaadhaar");
        e13.setText(ee3);
        String cb1=getIntent().getStringExtra("keycb1");
        c11.setText(cb1);
        String cb2=getIntent().getStringExtra("keycb2");
        c12.setText(cb2);
        String cb3=getIntent().getStringExtra("keycb3");
        c13.setText(cb3);
        String cb4=getIntent().getStringExtra("keycb4");
        c14.setText(cb4);
        String res=getIntent().getStringExtra("keyresult");
        result.setText(res);
    }
}

```



11:41 9

VoLTE 4G LTE1

COVIDAPP

Enter Name

Name

Place

place

Aadhaar number

Aadhaar no

Symptoms

☐ Cold Cough

☐ Fever

☐ No smell

☐ Vomiting

SUBMIT

11:41 9

VoLTE 4G LTE1

COVIDAPP

Gopi

Guntur

689254664532

Symptoms

Cold Cough

Fever

No smell

Vomiting

Diagnosis result

Covid Positive

11:41 8



COVIDAPP

Enter Name

Gopi

Place

Guntur

Aadhaar number

689254664532

Symptoms

☒ Cold Cough

☐ Fever

☐ No smell

☒ Vomiting

SUBMIT

11:41 9

VoLTE 4G LTE1

COVIDAPP

Gopi

Guntur

689254664532

Symptoms

Cold cough

Vomiting

Diagnosis result

Covid Negative