

KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES

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Affiliated to JNTUK , Kakinada) Vinjanampadu (village) , Vatticherukuru(MD) , Guntur(DT),AP 522017

SKILL ORIENTED PROGRAM

(MOBILE APP DEVELOPMENT)

A Report Submitted in Partial Fulfilment of the Requirements for the Award of
Credits To A Skill-Oriented Course:

Mobile App Development

A skill-oriented course of Bachelor of Technology

In

COMPUTER SCIENCE AND ENGINEERING

Submitted BY

VEERA VENKATA SATYA SAI TARUN KUMAR(21JR1A0566)



**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING**

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– 522017NOVEMBER 2022

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(Md), Guntur (DT),A.P-522017.



CERTIFICATE

This is to certify that the Skill-oriented titled, "MOBILE APP DEVELOPMENT" is a bonafide work Of KOTA VEERA VENKATA SATYA SAI TARUN KUMAR (21JR1A0566), who carried out the work under my supervision and submitted in partial fulfillment of the requirements for the award of credits in 2-1 of BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING during the academic year 2022-2023.

HEAD OF THE DEPARTMENT

PROJECT GUIDE

EXTERNAL EXAMINER

DECLARATION

We hereby inform that this skill oriented program entitled “**MOBILE APP DEVELOPMENT**” has been Carried out and submitted in partial fulfilment for the award to the degree of **Bachelor of Technology in COMPUTER SCIENCE & ENGINEERING** under the guidance of **B.PRASANNA KUMAR** . The work embodied in this work is original and has not been submitted in part or full for the award of credits in 2-1 B.Tech in CSE in the Academic year: 2022-23

VEERA VENKATA SATYA SAI TARUN KUMAR (21JRIA0566)

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Course Objectives:

- To understand the components and structure of mobile application development frameworks for Android and Windows OS based mobiles.
- To understand how to work with various mobile application development frameworks.
- To learn the basic and important design concepts and issues of development of mobile applications.
- To understand the capabilities and limitations of mobile devices.

Course Outcomes:

At the end of this course, students will be able to:

CO1: Identify various concepts of mobile programming that make it unique from programming other platforms.

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CO2:Critique mobile Applications on their design pros and cons

CO3:Utilize rapid prototyping techniques to design and develop sophisticated mobile interfaces.

CO4:Program mobile Applications for the Android operating system that use basic and advanced phone features and deploy applications to the Android marketplace for distribution

CO-PO Mapping

PO	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	C22.1	2		2	1	3							
	C22.2				3	2		1					
	C22.3	1						1		3	2	1	
	C22.4					2	3	1	2				2

CO-PSO Mapping

PSO	CO	PSO1	PSO2	PSO3
	C22.1	3		
	C22.2			2
	C22.3		3	
	C22.4		2	

1. Introduction:

The goal of this book is to teach the skills necessary to develop Android based applications using the Android Studio Integrated Development Environment (IDE) and the Android 5 Software Development Kit (SDK).

Beginning with the basics, this book provides an outline of the steps necessary to set up an Android development and testing environment. An overview of Android Studio is included covering areas such as tool windows, the code editor and the Designer tool. An introduction to the architecture of Android is followed by an in-depth look at the design of Android applications and user interfaces using the Android Studio environment. More advanced topics such as database management, content providers and intents are also covered, as are touch screen handling, gesture recognition, camera access and the playback and recording of both video and audio. This edition of the book also covers printing, transitions and cloud-based file storage.

In addition to covering general Android development techniques, the book also includes Google Play specific topics such as implementing maps using the Google Maps Android API, in-app billing and submitting apps to the Google Play Developer Console.

Chapters also cover advanced features of Android Studio such as Gradle build configuration and the implementation of build variants to target multiple Android device types from a single project code base.

Assuming you already have some Java programming experience, are ready to download Android Studio and the Android SDK, have access to a Windows, Mac or Linux system and ideas for some apps to develop, you are ready to get started.

APPLICATION 1 :

AIM : TO CREATE A MOBILE APP TO DISPLAY HELLOWORLD

MANIFEST CODE:

```
<?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:supportRtl="true"
        android:theme="@style/Theme.App1"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
```

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```
        android:exported="true">
        <intent-filter>
            <action android:name="android.intent.action.MAIN" />

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

        <meta-data
            android:name="android.app.lib_name"
            android:value="" />
    </activity>
</application>
</manifest>
```

XML CODE :

```
<?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:id="@+id/txt1"
    android:layout_width="match_parent"

    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World"
        android:textColor="#DA0505"
        android:textSize="24sp"
        android:textStyle="italic"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
```

JAVA CODE :

```
package com.example.app1;

import androidx.appcompat.app.AppCompatActivity;
```

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```
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState){
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

OUTPUT :



Hello world



APPLICATION 2:

AIM : TO CREATE A MOBILE APP TO TOAST A MESSAGE WHEN BUTTON IS CLICKED

MANIFEST CODE :

```
<?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:supportRtl="true"
        android:theme="@style/Theme.App4"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
        </application>
```

XML CODE :

```
<?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">
```

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```
android:background="#CBC9EA"  
tools:context=".MainActivity">
```

```
<Button  
    android:id="@+id/button"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:background="#9C27B0"  
    android:text="TOAST"  
    app:layout_constraintBottom_toBottomOf="parent"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toTopOf="parent" />
```

JAVA CODE :

```
package com.example.app4;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    Button toastButton;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        toastButton=findViewById(R.id.button);
```

```
        toastButton.setOnClickListener(new View.OnClickListener() {
```

```
            @Override
```

```
            public void onClick(View view) {
```

```
                Toast.makeText(getApplicationContext(),"BUTTON CLICKED",Toast.LENGTH_LONG).show();
```

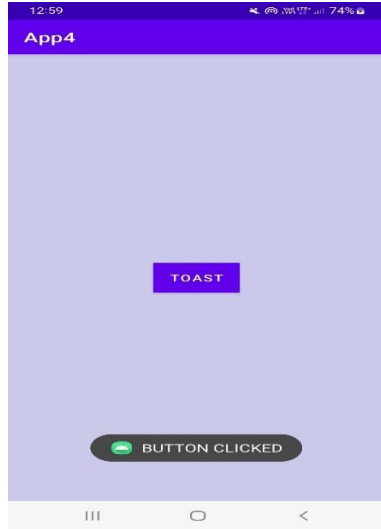
```
            }
```

```
        });
```

```
    }
```

}

OUTPUT :



APPLICATION 3 :

AIM : TO CREATE A MOBILE APP TO READ A TEXT FROM USER AND DISPLAY IT ON TEXT VIEW

MANIFEST CODE :

```
<?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:supportRtl="true"
        android:theme="@style/Theme.APP5"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
```

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```
<action android:name="android.intent.action.MAIN" />

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

<meta-data
    android:name="android.app.lib_name"
    android:value="" />
</activity>
</application>

</manifest>
```

XML CODE :

```
<?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/textview1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="@+id/button"
        app:layout_constraintStart_toStartOf="@+id/button"
        app:layout_constraintTop_toBottomOf="@+id/button" />

    <EditText
        android:id="@+id/inputText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:minHeight="48dp"
        android:text="ENTER A MESSAGE"
        app:layout_constraintBottom_toTopOf="@+id/button"
        app:layout_constraintEnd_toEndOf="parent"
```

```
app:layout_constraintHorizontal_bias="0.414"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent"  
app:layout_constraintVertical_bias="0.356" />
```

```
<Button  
    android:id="@+id/button"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginBottom="508dp"  
    android:text="Button"  
    app:layout_constraintBottom_toBottomOf="parent"  
    app:layout_constraintEnd_toEndOf="@+id/inputText"  
    app:layout_constraintHorizontal_bias="0.448"  
    app:layout_constraintStart_toStartOf="@+id/inputText" />
```

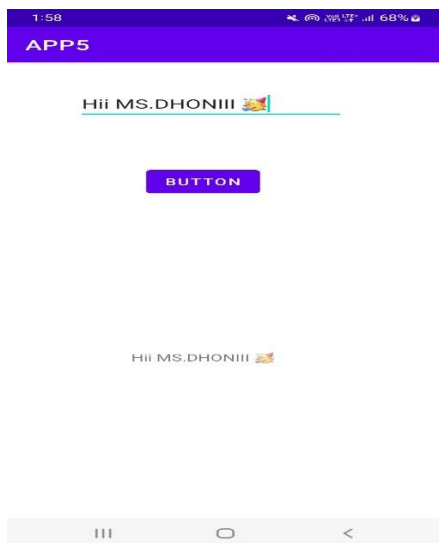
```
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app5;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
    EditText msg;  
    Button bt;  
    TextView tv;  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
        msg=findViewById(R.id.inputText);  
        bt=findViewById(R.id.button);  
        tv=findViewById(R.id.textview1);  
    }  
}
```

```
bt.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
        tv.setText(msg.getText());  
    }  
});  
}  
}
```

OUTPUT :



APPLICATION 4 :

AIM : TO CREATE A LOGO FOR A MOBILE APP

MANIFEST CODE

```
<?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:supportRtl="true"  
        android:theme="@style/Theme.App7"
```

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```
tools:targetApi="31">
<activity
    android:name=".MainActivity"
    android:exported="true">
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />

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

    <meta-data
        android:name="android.app.lib_name"
        android:value="" />
    </activity>
</application>
</manifest>
```

XML CODE :

```
<?xml version="1.0" encoding="utf-8"?>
<15ndroid.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:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</15ndroid.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app7;

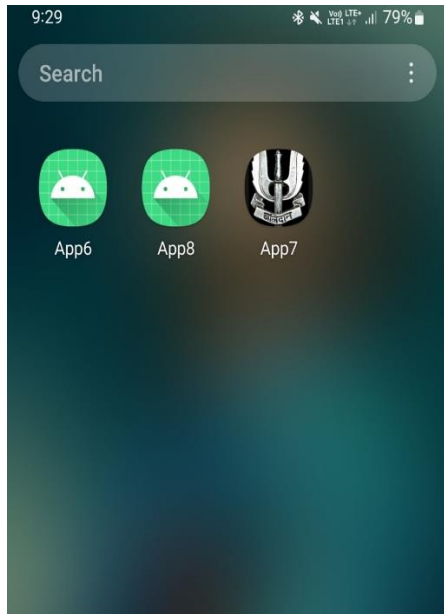
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

OUTPUT :



APPLICATION 5 :

AIM : TO CREATE A MOBILE APP TO PLACE USER NAME AND PASSWORD AND TOAST THEM

MANIFEST CODE :

```
<?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:supportRtl="true"
        android:theme="@style/Theme.App8"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
```


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```
<intent-filter>
    <action android:name="android.intent.action.MAIN" />

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

<meta-data
    android:name="android.app.lib_name"
    android:value="" />
</activity>
</application>

</manifest>
```

XML CODE :

```
<?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">

<EditText
    android:id="@+id/inptxt1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="112dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    android:text="Name"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.502"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<EditText
    android:id="@+id/inptxt2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
```

```
android:layout_marginTop="44dp"
android:ems="10"
android:inputType="textPassword"
android:minHeight="48dp"
android:text="password"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/inptxt1" />
```

```
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="60dp"
    android:text="LOGIN"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="@+id/inptxt2"
    app:layout_constraintHorizontal_bias="0.491"
    app:layout_constraintStart_toStartOf="@+id/inptxt2"
    app:layout_constraintTop_toBottomOf="@+id/inptxt2"
    app:layout_constraintVertical_bias="0.092" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app8;

import androidx.appcompat.app.AppCompatActivity;

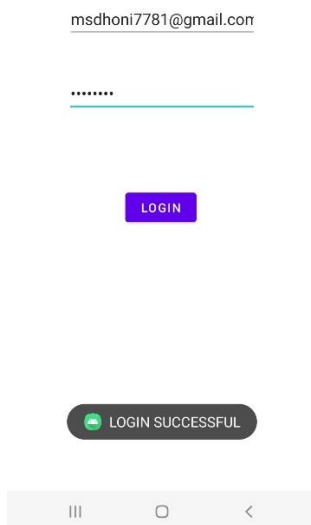
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    EditText name;
    EditText password;
    Button bt;
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    name=findViewById(R.id.inptxt1);
    password=findViewById(R.id.inptxt2);
    bt=findViewById(R.id.button);

    bt.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Toast.makeText(getApplicationContext(),"LOGIN SUCCESSFUL",Toast.LENGTH_LONG).show();}
    });
}
```

OUTPUT :



APPLICATION 6 :

AIM : CREATE A MOBILE APP TO KNOW YOUR FAVOURITE SKILLS USING CHECK BOXES

MANIFEST CODE :

```
<?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:supportRtl="true"
        android:theme="@style/Theme.App9"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
        </application>
    </manifest>
```

XML CODE :

```
<?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="@color/design_default_color_primary"
tools:context=".MainActivity">
```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="56dp"
    android:text="SKILL CHECKER"
    android:textColor="#DC0B0B"
    android:textSize="24sp"
    android:textStyle="bold"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.438"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<CheckBox
    android:id="@+id/c"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="40dp"
    android:text="C"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView" />
```

```
<CheckBox
    android:id="@+id/java"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="40dp"
    android:text="java"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/c" />
```

```
<CheckBox
```

```
android:id="@+id/python"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="40dp"
android:text="PYTHON LANGUAGE"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/java" />
```

```
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="88dp"
    android:backgroundTint="#B81010"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/python"
    app:layout_constraintVertical_bias="0.0"
    app:rippleColor="#DF1A1A" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app9;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.CompoundButton;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    CheckBox c,java,python;
    Button btn;
    int cp,j,p;
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    c=findViewById(R.id.c);
    java=findViewById(R.id.java);
    python=findViewById(R.id.python);
    btn=findViewById(R.id.button);
    c.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
        @Override
        public void onCheckedChanged(CompoundButton compoundButton, boolean b) {
            if (b)
                cp=1;
            else
                cp=0;
        }
    });
    java.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
        @Override
        public void onCheckedChanged(CompoundButton compoundButton, boolean b) {
            if (b)
                j=1;
            else
                j=0;
        }
    });
    python.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
        @Override
        public void onCheckedChanged(CompoundButton compoundButton, boolean b) {
            if (b)
                p=1;
            else
                p=0;
        }
    });
    btn.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String s = "";
            if (cp == 1)
```

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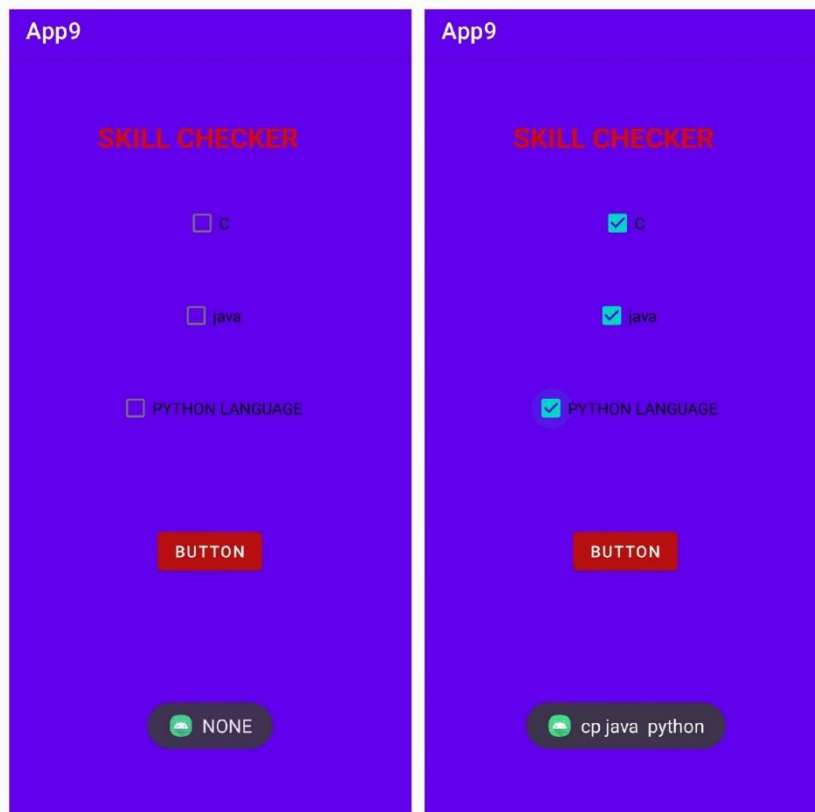
```
s += "cp ";
if (j == 1)
    s += "java ";
if (p == 1)
    s += " python";
if ((cp == 0) && (j == 0) && (p == 0))

    s += "NONE";
Toast.makeText(MainActivity.this, s, Toast.LENGTH_LONG).show();

}

});
}
}
```

OUTPUT :



APPLICATION 7 :

AIM : TO CREATE A MOBILE APP TO PICK YOUR FAVOURITE COLOUR USING RADIO BOXES AND RADIO GROUP

MANIFEST CODE :

```
<?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:supportRtl="true"
        android:theme="@style/Theme.App10"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
        </application>

    </manifest>
```

XML CODE :

```
<?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="#D5DC15"
tools:context=".MainActivity">
```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="36dp"
    android:text="CLICK YOUR FAV COLOUR"
    android:textColor="@color/purple_700"
    android:textSize="24sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.413"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<RadioGroup
    android:id="@+id/radioGroup"
    android:layout_width="261dp"
    android:layout_height="115dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView"
    app:layout_constraintVertical_bias="0.116">
```

```
<RadioButton
    android:id="@+id/blue"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="BLUE" />
```

```
<RadioButton
    android:id="@+id/yellow"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="YELLOW" />
```

```
</RadioGroup>
```

```
<Button
    android:id="@+id/button"
    android:layout_width="285dp"
    android:layout_height="51dp"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/radioGroup"
    app:layout_constraintVertical_bias="0.096" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app10;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.CompoundButton;
```

```
import android.widget.RadioButton;
```

```
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    RadioButton yellow,blue;
```

```
    int y,bl;
```

```
    Button btn;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        yellow=findViewById(R.id.yellow);
```

```
        blue=findViewById(R.id.blue);
```

```
        btn=findViewById(R.id.button);
```

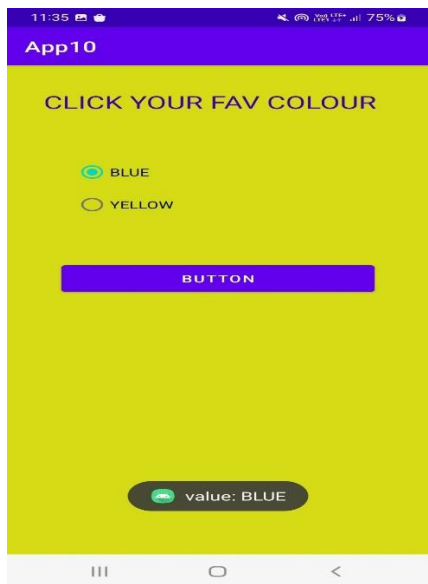
```
        yellow.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
```

```
            @Override
```

```
        public void onCheckedChanged(CompoundButton compoundButton, boolean b) {
            if (b)
                y=1;
            else
                y=0;
        }
    };
    blue.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
        @Override
        public void onCheckedChanged(CompoundButton compoundButton, boolean b) {
            if (b)
                bl=1;
            else
                bl=0;

        }
    });
    btn.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String s="value: ";
            if (y==1)
                s+="YELLOW";
            if (bl==1)
                s+="BLUE";
            if (bl==0&& y==0)
                s+="NONE";
            Toast.makeText(MainActivity.this,s,Toast.LENGTH_SHORT).show();
        }
    });
}
```

OUTPUT :



APPLICATION 8:

AIM : TO CREATE A MOBILE APP TO RENDER AN IMAGE IN CENTRE OF SCREEN BY USING RESOURCE MANAGER AND IMAGE VIEW

MANIFEST CODE :

```
<?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:supportRtl="true"
```

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```
android:theme="@style/Theme.App11"
tools:targetApi="31">
<activity
    android:name=".MainActivity"
    android:exported="true">
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />

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

    <meta-data
        android:name="android.app.lib_name"
        android:value="" />
    </activity>
</application>
```

</manifest>

XML CODE :

```
<?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">
```

```
<ImageView
    android:id="@+id/imageView"
    android:layout_width="297dp"
    android:layout_height="305dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.272"
    app:srcCompat="@drawable/image" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app11;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

OUTPUT:



APPLICATION 9:

AIM : TO CREATE A MOBILE APP TO RENDER AN IMAGE BUTTON ON TO THE SCREEN AND TOAST WHEN
BUTTON IS CLICKED

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MANIFEST CODE :

```
<?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:supportRtl="true"
        android:theme="@style/Theme.App12"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
        </application>

    </manifest>
```

XML CODE :

```
<?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">
```



```
<ImageButton
    android:id="@+id/button"
    android:layout_width="340dp"
    android:layout_height="437dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.492"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.255"
    app:srcCompat="@drawable/image"
    tools:ignore="SpeakableTextPresentCheck" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app12;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.ImageButton;
```

```
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
    ImageButton bt;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        bt=findViewById(R.id.button);
```

```
        bt.setOnClickListener(new View.OnClickListener() {
```

```
            @Override
```

```
            public void onClick(View view) {
```

```
                Toast.makeText(getApplicationContext(),"image opened",Toast.LENGTH_LONG).show();
```

```
            }
```

```
        });
```

```
}
```

}

OUTPUT :



image opened



APPLICATION 10 :

AIM : TO CREATE A MOBILE TO RENDER A SEEK BAR AND TOAST VALUE OF SEEK BAR ON BUTTON CLICK

MANIFEST CODE :

```
<?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:supportRtl="true"
    android:theme="@style/Theme.App13"
    tools:targetApi="31">
    <activity
        android:name=".MainActivity"
        android:exported="true">
        <intent-filter>
            <action android:name="android.intent.action.MAIN" />

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

        <meta-data
            android:name="android.app.lib_name"
            android:value="" />
        </activity>
    </application>
</manifest>
```

XML CODE :

```
<?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="#A13333"
    tools:context=".MainActivity">

    <SeekBar
        android:id="@+id/seekBar"
        android:layout_width="242dp"
        android:layout_height="51dp"
        android:layout_marginTop="208dp"
        android:max="100"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.384"
```

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

```
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.429"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/seekBar"
    app:layout_constraintVertical_bias="0.141" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app13;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.SeekBar;
```

```
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    SeekBar sb;
```

```
    Button btn;
```

```
    int s;
```

```
@Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        sb=findViewById(R.id.seekBar);
```

```
        btn=findViewById(R.id.button);
```

```
        sb.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {
```

```
            @Override
```

```
public void onProgressChanged(SeekBar seekBar, int i, boolean b) {  
    s=i;  
  
}  
  
@Override  
public void onStartTrackingTouch(SeekBar seekBar) {  
  
}  
  
@Override  
public void onStopTrackingTouch(SeekBar seekBar) {  
  
}  
});  
btn.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
        Toast.makeText(MainActivity.this,Integer.toString(s),Toast.LENGTH_LONG).show();  
    }  
});}}
```

OUTPUT :



APPLICATION 11 :

AIM : TO CREATE A MOBILE APP TO CHANGE THE BACK GROUND COLOUR ON SLIDE SWITCH

MANIFEST CODE :

```
<?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.App14"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

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```
<meta-data
    android:name="android.app.lib_name"
    android:value="" />
</activity>
</application>
```

</manifest>

XML CODE :

```
<?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:id="@+id/constr"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
```

```
<Switch
    android:id="@+id/switch1"
    android:layout_width="139dp"
    android:layout_height="83dp"
    android:text="Switch"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.378"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.231" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app14;

import androidx.appcompat.app.AppCompatActivity;
import androidx.constraintlayout.widget.ConstraintLayout;

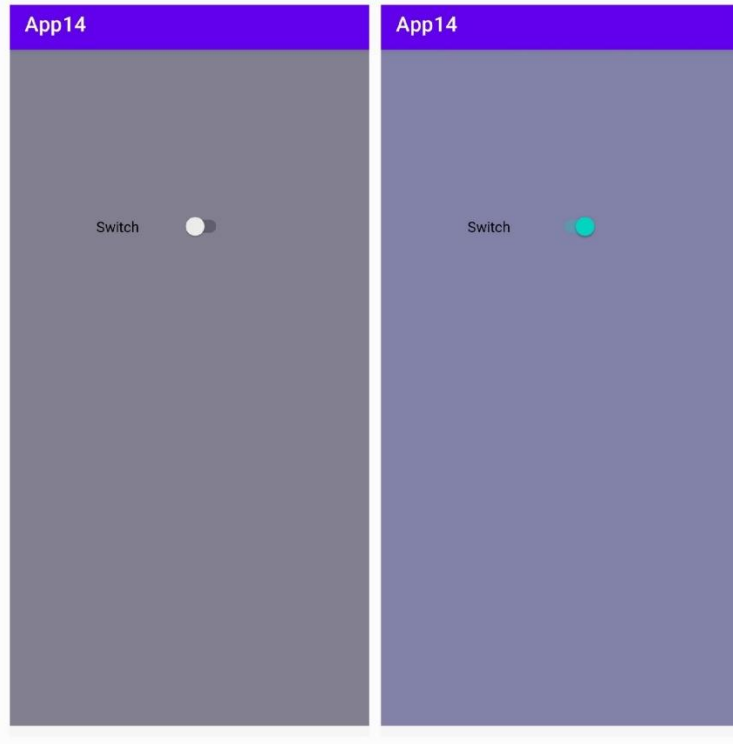
import android.annotation.SuppressLint;
import android.os.Bundle;
```

```
import android.os.ConditionVariable;
import android.widget.CompoundButton;
import android.widget.Switch;

public class MainActivity extends AppCompatActivity {
    ConstraintLayout constr;
    Switch switch1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        constr=findViewById(R.id.constr);
        switch1=findViewById(R.id.switch1);
        switch1.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
            @SuppressWarnings("ResourceAsColor")
            @Override
            public void onCheckedChanged(CompoundButton compoundButton, boolean b) {
                if (b)
                    constr.setBackgroundColor(R.color.red);
                else
                    constr.setBackgroundColor(R.color.black);
            }
        });
    }
}
```

OUTPUT :



APPLICATION 12 :

AIM : TO CREATE A MOBILE APP TO DISPLAY A HERO AND HEROINE IMAGE WHEN A TOGGLED BUTTON IS CLICKED

MANIFEST CODE :

```
<?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.App15"
        tools:targetApi="31">
```

```
<activity
    android:name=".MainActivity"
    android:exported="true">
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />

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

    <meta-data
        android:name="android.app.lib_name"
        android:value="" />
    </activity>
</application>

</manifest>
```

XML CODE :

```
<?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:id="@+id/constr"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <ToggleButton
        android:id="@+id/toggleButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="ToggleButton"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.752" />

    <ImageView
        android:id="@+id/imageView"
```

```
android:layout_width="267dp"
android:layout_height="344dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.238" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

JAVA CODE :

```
package com.example.app15;

import androidx.appcompat.app.AppCompatActivity;

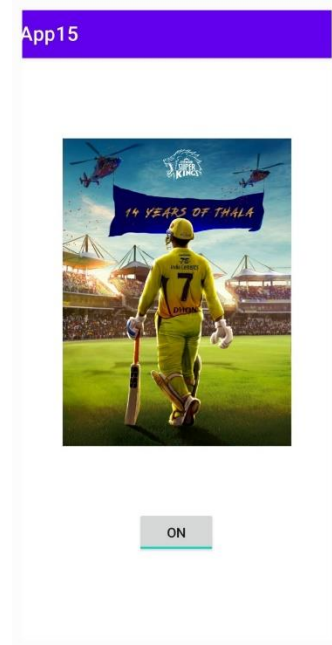
import android.os.Bundle;
import android.widget.CompoundButton;
import android.widget.ImageView;
import android.widget.ToggleButton;

public class MainActivity extends AppCompatActivity {
    ImageView image;
    ToggleButton t;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        image=findViewById(R.id.imageView);
        t=findViewById(R.id.toggleButton);
        t.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(CompoundButton compoundButton, boolean b) {
                if (b)
                    image.setImageResource(R.drawable.image1);
                else
                    image.setImageResource(R.drawable.image2);
            }
        })
    }
}
```

```
});  
}  
  
}
```

OUTPUT :



APPLICATION 13 :

AIM : TO CREATE A MOBILE APP TO RENDER <https://makeskilled.com> USING WEB VIEW

MANIFEST CODE :

```
<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
  xmlns:tools="http://schemas.android.com/tools">  
  <uses-permission android:name="android.permission.INTERNET"></uses-permission>  
  <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:supportRtl="true"  
    android:theme="@style/Theme.App16"
```

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```
tools:targetApi="31">
<activity
    android:name=".MainActivity"
    android:exported="true">
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />

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

    <meta-data
        android:name="android.app.lib_name"
        android:value="" />
    </activity>
</application>

</manifest>
```

XML CODE :

```
<?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">

    <WebView
        android:id="@+id/web"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

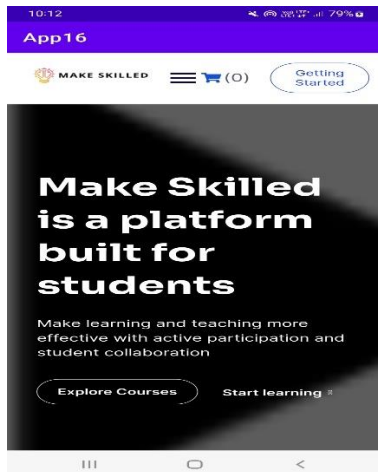
```
package com.example.app16;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.webkit.WebView;
```

```
public class MainActivity extends AppCompatActivity {  
    WebView web;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
        web=findViewById(R.id.web);  
        web.loadUrl("https://makeskilled.com");  
    }  
}
```

OUTPUT :



APPLICATION 14 :

AIM : TO CREATE A MOBILE APP TO RENDER A YOUTUBE VIDEO ON TO THE SCREEN USING ANDROID YOUTUBE PLAYER

MANIFEST CODE :

```
<?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"
```

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```
        android:supportsRtl="true"
        android:theme="@style/Theme.App17"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
        </application>

</manifest>

XML CODE :

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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">

    <com.pierfrancescosoffritti.androidyoutubeplayer.core.player.views.YouTubePlayerView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:videoid="nrebb6pxPrk"
        app:autoPlay="true">

    </com.pierfrancescosoffritti.androidyoutubeplayer.core.player.views.YouTubePlayerView>

</LinearLayout>
```

JAVA CODE :

```
package com.example.app17;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

OUTPUT :



APPLICATION 15 :

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AIM : TO CREATE A MOBILE APP TO TOAST A FEEDBACK FROM STAR RATING ON A BUTTON CLICK

MANIFEST CODE :

```
<?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:supportRtl="true"
        android:theme="@style/Theme.App18"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
        </application>

    </manifest>
```

XML CODE :

```
<?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">
```

```
<RatingBar
    android:id="@+id/ratingBar"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.362"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.194"
    tools:ignore="SpeakableTextPresentCheck" />
```

```
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="112dp"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.441"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/ratingBar"
    app:layout_constraintVertical_bias="0.013" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app18;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

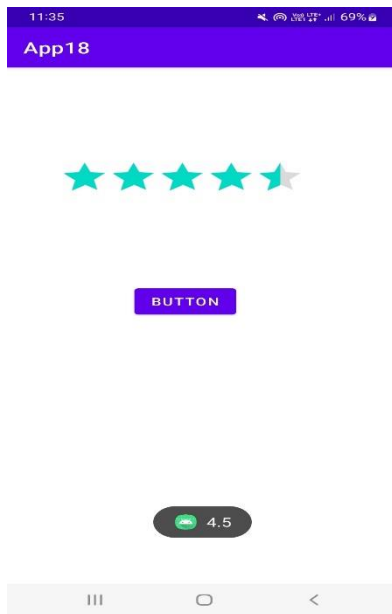
```
import android.widget.RatingBar;
```

```
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
    RatingBar rb;
```

```
Button btn;  
float s;  
@Override  
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
    rb=findViewById(R.id.ratingBar);  
    btn=findViewById(R.id.button);  
  
    btn.setOnClickListener(new View.OnClickListener() {  
        @Override  
        public void onClick(View view) {  
            s=rb.getRating();  
            Toast.makeText(MainActivity.this,Float.toString(s),Toast.LENGTH_LONG).show();  
        }  
    });  
}
```

OUTPUT :



APPLICATION 16 :

AIM : TO CREATE A MOBILE APP TO OPEN MULTIPLE SCREENS USING INTENT

MANIFEST CODE :

```
<?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:supportRtl="true"
        android:theme="@style/Theme.App19"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
            <activity android:name=".SecondActivity"></activity>
        </application>
    </manifest>
```

SCREEN 1 XML CODE :

```
<?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="#EABA09"
    tools:context=".MainActivity" >
```

```
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.464" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

SCREEN TWO XML CODE :

```
<?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="#ED1414">
```

```
<Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.446" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

SCREEN ONE JAVA CODE :

```
package com.example.app19;

import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {
    Button btn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btn=findViewById(R.id.button);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent i=new Intent(MainActivity.this,SecondActivity.class);
                startActivity(i);
            }
        });
    }
}
```

SCREEN TWO JAVA CODE :

```
package com.example.app19;

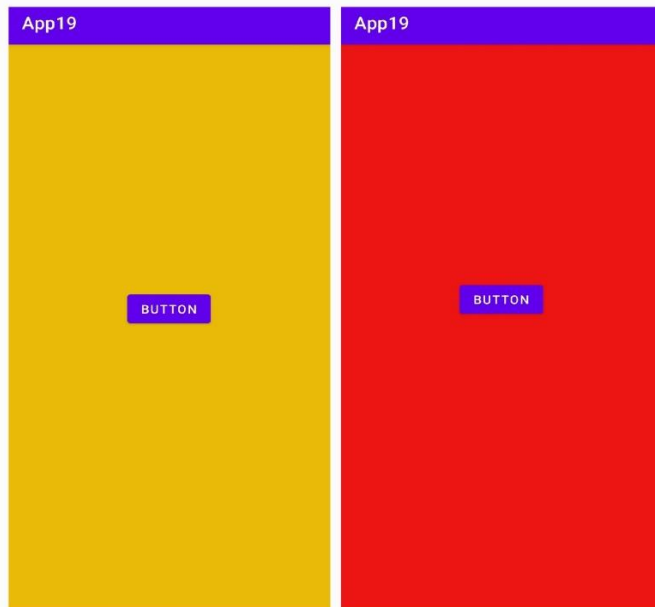
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

import androidx.appcompat.app.AppCompatActivity;

public class SecondActivity extends AppCompatActivity {
    Button btn;
    @Override
    protected void onCreate(Bundle savedInstanceState){
        super.onCreate(savedInstanceState);
```

```
setContentView(R.layout.activity_second);  
btn=findViewById(R.id.button2);  
btn.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
        Intent i =new Intent(SecondActivity.this,MainActivity.class);  
        startActivity(i);  
    }  
});  
}
```

OUTPUT :



APPLICATION 17 :

AIM : TO CREATE A MOBILE APP TO SEND A SMS ON BUTTON CLICK USING SMS MANAGER

MANIFEST CODE :

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

</uses-permission>
<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:supportRtl="true"
    android:theme="@style/Theme.App21"
    tools:targetApi="31">
    <activity
        android:name=".MainActivity"
        android:exported="true">
        <intent-filter>
            <action android:name="android.intent.action.MAIN" />

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

        <meta-data
            android:name="android.app.lib_name"
            android:value="" />
```


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```
</activity>
</application>
```

```
</manifest>
```

XML CODE :

```
<?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">

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app21;

import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;

import android.Manifest;
import android.content.pm.PackageManager;
import android.os.Bundle;
import android.telephony.SmsManager;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    Button btn;
```

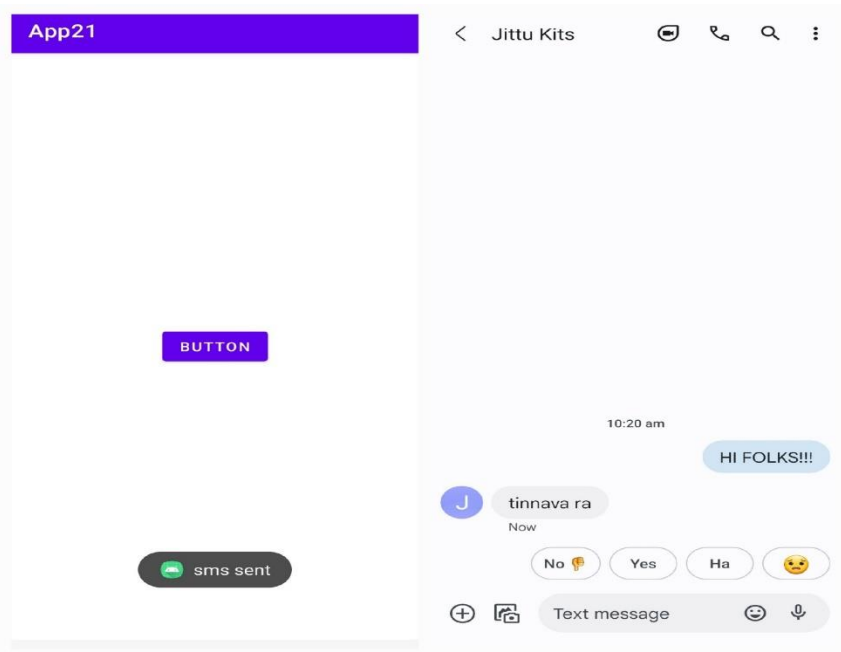
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```
String m="8688972918";  
String msg="HI FOLKS!!!";
```

```
@Override  
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
    btn=findViewById(R.id.button);  
  
    btn.setOnClickListener(new View.OnClickListener() {  
        @Override  
        public void onClick(View view) {  
            if (ActivityCompat.checkSelfPermission(MainActivity.this, Manifest.permission.SEND_SMS)!=  
PackageManager.PERMISSION_GRANTED){  
                return;  
            }  
            // send sms  
            SmsManager sms=SmsManager.getDefault();  
            sms.sendTextMessage(m,null,msg,null,null);  
  
            Toast.makeText(MainActivity.this,"sms sent",Toast.LENGTH_LONG).show();  
  
        }  
    });  
}
```

OUTPUT:



APPLICATION 18 :

AIM : TO CREATE A MOBILE APP TO SEND SMS FROM USER INPUT BY PLACING PLAIN TEXT AND SMS MANAGER

MANIFEST CODE :

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

    </uses-permission>

    <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:supportRtl="true"
    android:theme="@style/Theme.App22"
    tools:targetApi="31">
    <activity
        android:name=".MainActivity"
        android:exported="true">
        <intent-filter>
            <action android:name="android.intent.action.MAIN" />

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

        <meta-data
            android:name="android.app.lib_name"
            android:value="" />
        </activity>
    </application>

</manifest>
```

XML CODE :

```
<?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">

    <EditText
        android:id="@+id/pt2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="84dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Name"
        app:layout_constraintBottom_toTopOf="@+id/button"
```

```
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="320dp"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.425"
    app:layout_constraintStart_toStartOf="parent" />

<EditText
    android:id="@+id/pt1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Name"
    app:layout_constraintBottom_toTopOf="@+id/pt2"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.522" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app22;

import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;

import android.Manifest;
import android.content.pm.PackageManager;
import android.os.Bundle;
import android.os.Message;
import android.telephony.SmsManager;
import android.view.View;
import android.widget.Button;
```

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```
import android.widget.EditText;
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
    Button btn;
    String msg,no;
    EditText pt1;
    EditText pt2;
```

```
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    btn=findViewById(R.id.button);
    pt1=findViewById(R.id.pt1);
    pt2=findViewById(R.id.pt2);
```

```
    btn.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            msg=pt1.getText().toString();
            no=pt2.getText().toString();
```

```
            if (ActivityCompat.checkSelfPermission(MainActivity.this, Manifest.permission.SEND_SMS)!=
PackageManager.PERMISSION_GRANTED){
                return;
            }
```

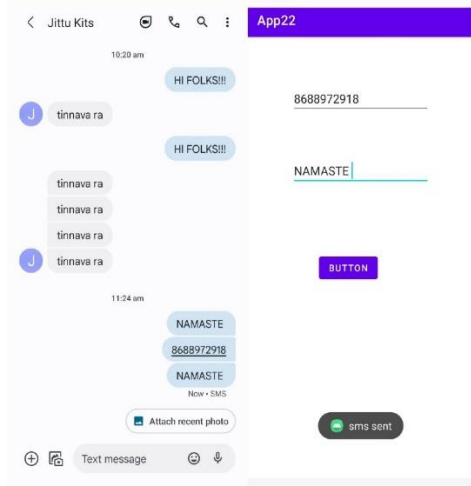
```
            SmsManager sms=SmsManager.getDefault();
            sms.sendTextMessage(msg,null,no,null,null);
```

```
            Toast.makeText(MainActivity.this,"sms sent",Toast.LENGTH_LONG).show();
```

```
        }
    });
```

```
}  
  
}
```

OUTPUT :



APPLICATION 19 :

AIM : TO CREATE A MOBILE APP TO CONVERT TEXT TO SPEECH ON BUTTON CLICK

MANIFEST CODE :

```
<?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:supportRtl="true"
```

```
    android:theme="@style/Theme.App23"
    tools:targetApi="31">
    <activity
        android:name=".MainActivity"
        android:exported="true">
        <intent-filter>
            <action android:name="android.intent.action.MAIN" />

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

        <meta-data
            android:name="android.app.lib_name"
            android:value="" />
        </activity>
    </application>

</manifest>
```

XML CODE :

```
<?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">

    <EditText
        android:id="@+id/txt"
        android:layout_width="254dp"
        android:layout_height="70dp"
        android:layout_marginTop="136dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="ENTER TEXT TO CONVERT "
        app:layout_constraintBottom_toTopOf="@+id/button"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.49"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
```



```
        app:layout_constraintVertical_bias="0.463" />

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="316dp"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app23;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.speech.tts.TextToSpeech;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

import java.util.Locale;

public class MainActivity extends AppCompatActivity {
    Button btn;
    EditText text;
    TextToSpeech tts;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```
setContentView(R.layout.activity_main);
btn=findViewById(R.id.button);
text=findViewById(R.id.txt);
tts=new TextToSpeech(MainActivity.this, new TextToSpeech.OnInitListener() {
    @Override
    public void onInit(int i) {
        if (i!=TextToSpeech.ERROR) {

            tts.setLanguage(Locale.UK);
        }

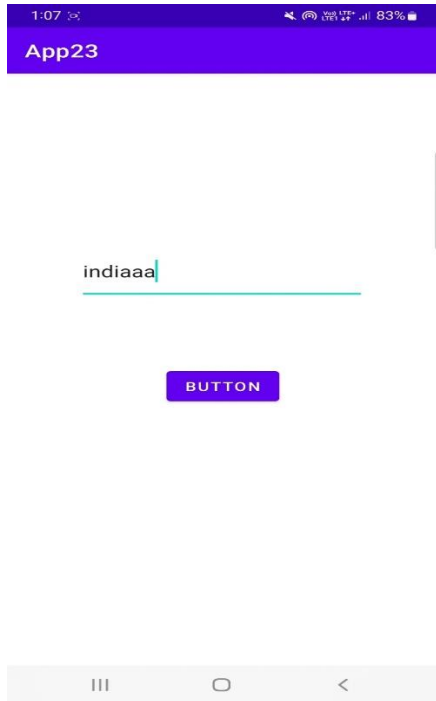
    }
});
btn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String s=text.getText().toString();
        tts.speak(s,TextToSpeech.QUEUE_FLUSH,null);
    }
});

}
public void onPause(){
    super.onPause();
    if (tts!=null){
        tts.stop();
        tts.shutdown();
    }
}
```

OUTPUT :

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APPLICATION 20 :

AIM : TO CREATE A MOBILE APP TO COVERT SPEECH TO TEXT USING INTENT AND GOOGLE VOICE

MANIFEST CODE :

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

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```
<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:supportRtl="true"
    android:theme="@style/Theme.App24"
    tools:targetApi="31">
    <activity
        android:name=".MainActivity"
        android:exported="true">
        <intent-filter>
            <action android:name="android.intent.action.MAIN" />

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

        <meta-data
            android:name="android.app.lib_name"
            android:value="" />
        </activity>
    </application>

</manifest>
```

XML CODE :

```
<?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="215dp"
        android:layout_height="102dp"
```

```
android:text="TextView"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.453"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.299" />
```

```
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="44dp"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.466"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView"
    app:layout_constraintVertical_bias="0.098" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE:

```
package com.example.app24;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.speech.RecognizerIntent;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

import java.util.ArrayList;
import java.util.Locale;

public class MainActivity extends AppCompatActivity {
    Button btn;
    TextView tv;
    @Override

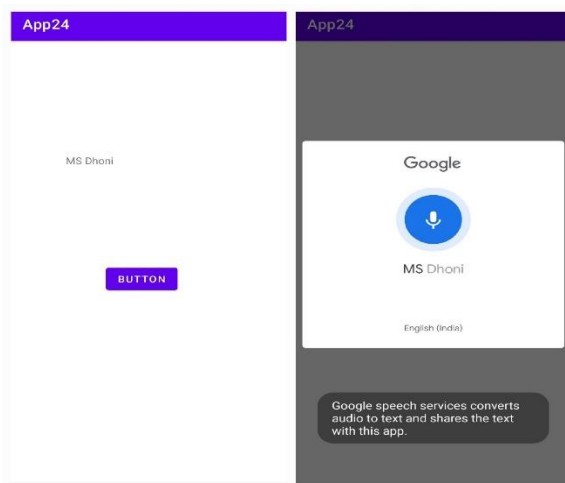
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```
setContentView(R.layout.activity_main);
btn=findViewById(R.id.button);
tv=findViewById(R.id.textView);
btn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent i=new Intent(RecognizerIntent.ACTION_RECOGNIZE_SPEECH);
        i.putExtra(RecognizerIntent.EXTRA_LANGUAGE, Locale.UK);

i.putExtra(RecognizerIntent.EXTRA_LANGUAGE_MODEL,RecognizerIntent.LANGUAGE_MODEL_FREE_FO
RM);

        i.putExtra(RecognizerIntent.EXTRA_PROMPT,"HEY I AM READY");
        startActivityForResult(i,100);
    }
});
}
protected void onActivityResult(int r,int res,Intent data){
    super.onActivityResult(r,res,data);
    switch (r){
        case 100:
            if (res==RESULT_OK && data!=null){
                ArrayList result1=data.getStringArrayListExtra(RecognizerIntent.EXTRA_RESULTS);
                tv.setText(result1.get(0).toString());
            }
        }
    }
}
```

OUTPUT :



APPLICATION 21 :

AIM : TO CREATE A MOBILE APP TO SEND AN EMAIL USING INTENT

MANIFEST CODE :

```
<?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:supportRtl="true"
        android:theme="@style/Theme.App25"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
        </application>

    </manifest>
```

XML CODE :

```
<?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">

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE :

```
package com.example.app25;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {
    Button btn;

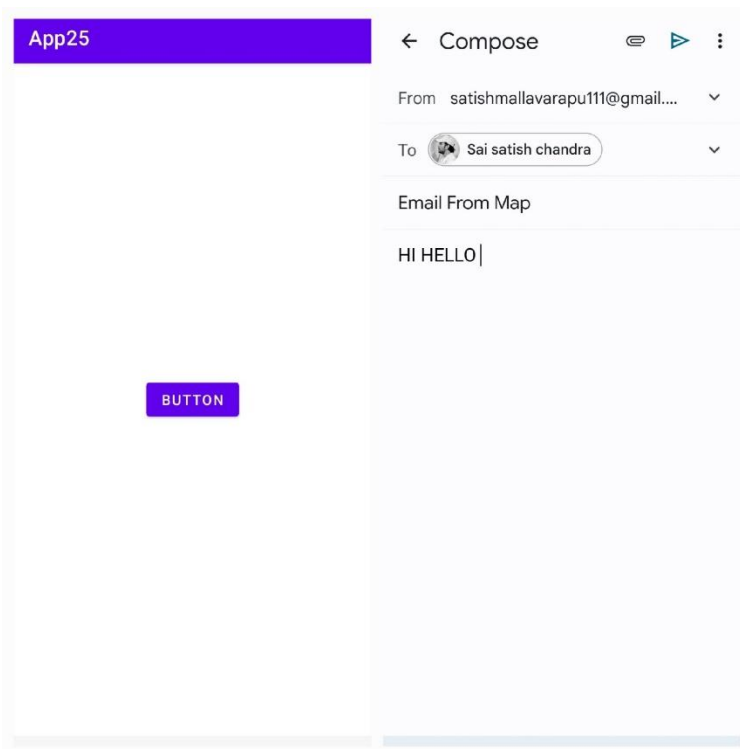
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btn=findViewById(R.id.button);

        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String[] t={"satishmallavarapu111@gmail.com"};
```



```
        Intent i=new Intent(Intent.ACTION_SEND);
        i.setData(Uri.parse("mailto:"));
        i.setType("text/plain");
        i.putExtra(Intent.EXTRA_EMAIL,t);
        i.putExtra(Intent.EXTRA_SUBJECT,"Email From Map");
        i.putExtra(Intent.EXTRA_TEXT,"HI HELLO");
        startActivity(Intent.createChooser(i,"send email"));
    }
    });
}
```

OUTPUT :



APPLICATION 23 : TO CONNECT A MOBILE APP TO FIREBASEDATABASE

Mainactivity.java :

```
EditText e1;  
EditText e2;
```

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```
Button b1;  
  
String username;  
  
String pass;  
  
Button b2;  
  
  
e1=findViewById(R.id.input1);  
e2=findViewById(R.id.input2);  
  
b1=findViewById(R.id.button);  
b2=findViewById(R.id.button3);  
  
b1.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
        username=e1.getText().toString();  
        pass=e2.getText().toString();  
  
        FirebaseDatabase db=FirebaseDatabase.getInstance();  
        DatabaseReference key=db.getReference(username);  
        key.setValue(pass);  
        Toast.makeText(MainActivity.this, "user  
registered", Toast.LENGTH_LONG).show();  
        Intent i=new Intent(MainActivity.this, SecondActivity.class);  
        startActivity(i);  
    }  
});  
  
  
b2.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
  
        Intent i=new Intent(MainActivity.this, SecondActivity.class);  
        startActivity(i);  
    }  
});
```

```
        }  
    });  
}  
}
```

Second activity.java

```
EditText e1;  
EditText e2;  
Button b1;  
String username;  
String pass;  
  
e1 = findViewById(R.id.input3);  
e2 = findViewById(R.id.input4);  
b1 = findViewById(R.id.button2);  
b1.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
        username = e1.getText().toString();  
        pass = e2.getText().toString();  
  
        FirebaseDatabase db = FirebaseDatabase.getInstance();  
        DatabaseReference key = db.getReference(username);  
        key.addValueEventListener(new ValueEventListener() {  
            @Override  
            public void onDataChange(@NonNull DataSnapshot snapshot) {  
                String value = snapshot.getValue(String.class);  
                if (value.equals(pass)) {  
                    Toast.makeText(SecondActivity.this, "login  
success", Toast.LENGTH_SHORT).show();  
                }  
            }  
        });  
    }  
});
```

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```
Intent i = new Intent(SecondActivity.this,
ThirdActivity.class);

startActivity(i);

} else {

    Toast.makeText(SecondActivity.this, "Login
faileds", Toast.LENGTH_SHORT).show();

}

}

@Override

public void onCancelled(@NonNull DatabaseError error) {

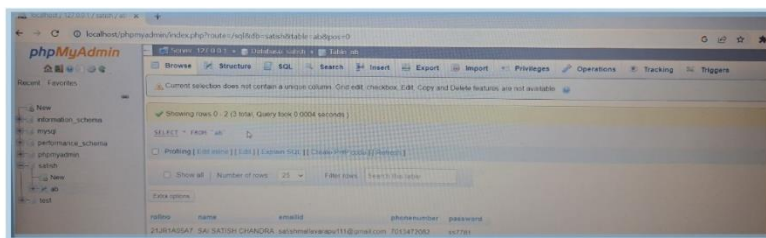
}

});

}

});}}
```

OUTPUT:



PROJECT

SCAN LIFE

Introduction to project

In this app there are 4 screens.

Screen 1 is the login screen the user of this app will login with their credentials .In the screen 1 there is a scan button that allows to scan the QR code.

Screen 2 is the signup screen the new user will creates account by signing up.

Screen 3 is the Numbers Screen , it contains Emergency numbers.

Screen 4 is the main screen of the app in which the logged user will generates a QR code by giving the data of the user family member and download the generated QR into mobile storage.

CODE

SCREEN 1

LOGIN SCREEN

XML CODE

```
<?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/back3">

    <EditText
        android:id="@+id/phno2qr"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
```

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```
android:hint="Enter 2nd PhoneNumber"
android:inputType="textPersonName"
android:minHeight="48dp"
android:textColor="@color/black"
android:textColorHint="#5E121111"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.497"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.225" />
```

```
<EditText
    android:id="@+id/phno1qr"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="Enter 1st PohneNumber"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.134" />
```

```
<EditText
    android:id="@+id/nameqr"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="Enter name"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    android:textColorHint="#74000000"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.045" />
```

```
<Button
    android:id="@+id/genqr"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Generate QR Code"
    android:textColor="@color/white"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
```

```
app:layout_constraintVertical_bias="0.396" />
```

```
<EditText
    android:id="@+id/group"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="Enter your blood group : "
    android:inputType="textPersonName"
    android:minHeight="48dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.314" />
```

```
<RelativeLayout
    android:id="@+id/r1"
    android:layout_width="329dp"
    android:layout_height="290dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.492"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.811">
```

```
<ImageView
    android:id="@+id/qr"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="-3dp"
    android:layout_marginTop="-26dp"
    tools:ignore="ImageContrastCheck">
```

```
</ImageView>
```

```
<TextView
    android:id="@+id/textView5"
    android:layout_width="208dp"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="82dp"
    android:layout_marginTop="259dp"
    android:layout_marginEnd="39dp"
    android:layout_marginBottom="-1dp"
```

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```
android:textAlignment="center"
android:textColor="@color/black"
android:textSize="24sp"
android:textStyle="bold"
android:visibility="visible" />
```

```
<ImageView
    android:id="@+id/imageView"
    android:layout_width="43dp"
    android:layout_height="35dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="56dp"
    android:layout_marginTop="255dp"
    android:layout_marginEnd="230dp"
    android:layout_marginBottom="1dp"
    tools:ignore="ImageContrastCheck" />
```

```
</RelativeLayout>
```

```
<TextView
    android:id="@+id/textView6"
    android:layout_width="59dp"
    android:layout_height="18dp"
    android:text="Scan QR"
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="14sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.985"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.102" />
```

```
<Button
    android:id="@+id/qrdownload"
    android:layout_width="191dp"
    android:layout_height="50dp"
    android:text="Download QR"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.961" />
```

```
<ImageButton
    android:id="@+id/logscan"
    android:layout_width="48dp"
    android:layout_height="48dp"
```



```
android:background="@color/cardview_shadow_end_color"
android:contentDescription="@string/app_name"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.955"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.017"
app:srcCompat="@drawable/logo" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

JAVA CODE

```
package com.example.scanlife;

import androidx.activity.result.ActivityResultLauncher;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.Manifest;
import android.app.AlertDialog;
import android.content.DialogInterface;
import android.content.Intent;

import android.content.SharedPreferences;
import android.content.pm.PackageManager;
import android.os.Build;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageButton;
import android.widget.Toast;

import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;
import com.journeyapps.barcodescanner.ScanContract;
import com.journeyapps.barcodescanner.ScanOptions;

public class MainActivity extends AppCompatActivity {
    Button b1,b2,b3;
    ImageButton ib;
    EditText et1,et2;
    String username,pass;
    public static final String SHARED_PREFS = "shredprefs";

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
```

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```
getSupportActionBar().setTitle("Login");
b1=findViewById(R.id.login);
b2=findViewById(R.id.signup);

b3=findViewById(R.id.numbers);
et1=findViewById(R.id.name);

et2=findViewById(R.id.password);
ib=findViewById(R.id.scan);
check();

//Login button
b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        username = et1.getText().toString();
        pass = et2.getText().toString();
        if (username.equals("") || pass.equals("")) {
            Toast.makeText(MainActivity.this, "Please fill up all
fields", Toast.LENGTH_SHORT).show();
        }

        else{
            FirebaseDatabase db = FirebaseDatabase.getInstance();
            DatabaseReference key = db.getReference(username);
            key.addValueEventListener(new ValueEventListener() {
                @Override
                public void onDataChange(@NonNull DataSnapshot snapshot)
            {
                String value = snapshot.getValue(String.class);
                if (value.equals(pass)) {
                    SharedPreferences sharedPreferences =
getSharedPreferences(SHARED_PREFS, MODE_PRIVATE);
                    SharedPreferences.Editor editor =
sharedPreferences.edit();

                    editor.putString("name", "true");
                    editor.apply();

                    Toast.makeText(MainActivity.this, "login
success", Toast.LENGTH_SHORT).show();
                    Intent i = new Intent(MainActivity.this,
Login_Activity.class);
                    startActivity(i);

                } else {

                    Toast.makeText(MainActivity.this, "Login failed",
Toast.LENGTH_LONG).show();
                }
            }
        }
    }
});
```

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```
        }

        @Override
        public void onCancelled(@NonNull DatabaseError error) {

        }

    });
}

}

});
b2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i1=new
Intent(MainActivity.this,Signup_Activity.class);
        startActivity(i1);

    }
});
b3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i2=new
Intent(MainActivity.this,Numbers_Activity.class);
        startActivity(i2);
    }
});
//qr scanner button
ib.setOnClickListener(new View.OnClickListener() {

    @Override
    public void onClick(View v) {
        scanCode();

    }

    private void scanCode() {
        ScanOptions options=new ScanOptions();
        options.setPrompt("Volume up to flash on");
        options.setBeepEnabled(true);
        options.setOrientationLocked(true);
        options.setCaptureActivity(CaptureAct.class);
        barLauncher.launch(options);

    }

   ActivityResultLauncher<ScanOptions>
barLauncher=registerForActivityResult(new ScanContract(),result ->
    {
        if (result.getContents()!=null)
        {
            AlertDialog.Builder builder=new
```

```

AlertDialog.Builder(MainActivity.this);
        builder.setTitle("Result");
        builder.setMessage(result.getContents());
        builder.setPositiveButton("OK", new
DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int
which) {
                dialog.dismiss();
            }
        }).show();
    }
});
}
//Method to check logged in previously or not
private void check() {
    SharedPreferences sharedPreferences =
getSharedPreferences("SHARED_PREFS",MODE_PRIVATE);
    String checking = sharedPreferences.getString("name","");
    if(checking.equals("true")){
        Intent i = new Intent(MainActivity.this, Login_Activity.class);
        startActivity(i);
        finish();
    }
}

//Method to go back on clicking back button on a Mobile
@Override
public void onBackPressed() {
    super.onBackPressed();
    finishAffinity();
}
}

```

SCREEN 2

SIGNUP SCREEN

XML CODE

```

<?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:background="@drawable/back3"

```

```
android:layout_height="match_parent">

<TextView
    android:id="@+id/textView7"
    android:layout_width="309dp"
    android:layout_height="33dp"
    android:text=" Have an account?Click here👉"
    android:textAlignment="center"
    android:textColor="#FFFFFF"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.746" />

<EditText
    android:id="@+id/namereg"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="Username"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    android:textColorHint="#B5B5B5"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.24" />

<EditText
    android:id="@+id/passwordreg"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="Password"
    android:inputType="textPassword"
    android:minHeight="48dp"
    android:textColorHint="#B5B5B5"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.352" />

<Button
    android:id="@+id/reg"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Register"
    android:textAllCaps="false"
```

```
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.801"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.606" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Register your account here👉"
    android:textColor="#FFFFFF"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.496"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.112" />

<Button
    android:id="@+id/button"
    android:layout_width="291dp"
    android:layout_height="49dp"
    android:text="Login"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.808" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA CODE

```
package com.example.scanlife;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
```

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```
import android.widget.Toast;

import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;

public class Signup_Activity extends AppCompatActivity {
    EditText et1,et2;
    Button b1,b2;
    String username,pass;

    //Signup a user
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_signup);
        getSupportActionBar().setTitle("Signup");
        b1=findViewById(R.id.reg);
        b2 = findViewById(R.id.button) ;
        et1=findViewById(R.id.namereg);
        et2=findViewById(R.id.passwordreg);

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                username=et1.getText().toString();
                pass=et2.getText().toString();
                if (username.equals("") || pass.equals("")) {
                    Toast.makeText(Signup_Activity.this, "Please fill up all
fields", Toast.LENGTH_SHORT).show();
                }

                else {
                    FirebaseDatabase db = FirebaseDatabase.getInstance();
                    DatabaseReference key = db.getReference(username);
                    key.setValue(pass);
                    Toast.makeText(Signup_Activity.this, "user registerd",
Toast.LENGTH_LONG).show();

                    Intent i3= new Intent(Signup_Activity.this,
MainActivity.class);
                    startActivity(i3);

                }
            }
        });

        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent i4=new
Intent(Signup_Activity.this,MainActivity.class);
                startActivity(i4);
                finish();
            }
        })
    }
}
```

```
    });  
  
    }  
    @Override  
    public void onBackPressed() {  
        super.onBackPressed();  
        finishAffinity();  
    }  
}
```

SCREEN 3

NUMBERS SCREEN

XML CODE

```
<?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:background="@drawable/back5"  
android:layout_height="match_parent">  
  
    <TextView  
        android:id="@+id/textView4"  
        android:layout_width="348dp"  
        android:layout_height="412dp"  
        android:text="Helpline Numbers :  
:100\n 2.Fire :101\n 3.EMRI / AMBULANCE  
:108 or 102\n 4.DISHA HELPLINE :181 OR 112\n 5.CORRUPTION \n  
6.GREVIENCES :14400\n 7.RAILWAYS ENQUIRY :139\n 8.NHAI  
:1033"  
        android:textColor="#171616"  
        android:textSize="20sp"  
        android:textStyle="bold"  
        app:layout_constraintBottom_toBottomOf="parent"  
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintHorizontal_bias="0.15"  
        app:layout_constraintStart_toStartOf="parent"  
        app:layout_constraintTop_toTopOf="parent"  
        app:layout_constraintVertical_bias="0.106" />  
  
    <Button  
        android:id="@+id/okay"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_marginStart="5dp"
```



```
android:layout_marginEnd="5dp"
android:text="Okay"
android:textAllCaps="false"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.807"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.768" />
```

JAVA CODE

```
package com.example.scanlife;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class Numbers_Activity extends AppCompatActivity {
    Button o;

    //Buttons for emergency activity
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_numbers);
        getSupportActionBar().setTitle("Emergency Numbers");
        o=findViewById(R.id.okay);
        o.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent io=new
Intent(Numbers_Activity.this,MainActivity.class);
                startActivity(io);
            }
        });
    }
}
```

SCREEN 4

MAIN SCREEN

XML CODE

```
<?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/back3">

    <EditText
        android:id="@+id/phno2qr"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Enter 2nd PhoneNumber"
        android:inputType="textPersonName"
        android:minHeight="48dp"
        android:textColor="@color/black"
        android:textColorHint="#5E121111"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.225" />

    <EditText
        android:id="@+id/phno1qr"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Enter 1st PohneNumber"
        android:inputType="textPersonName"
        android:minHeight="48dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.134" />

    <EditText
        android:id="@+id/nameqr"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Enter name"
        android:inputType="textPersonName"
        android:minHeight="48dp"
        android:textColorHint="#74000000"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
```

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```
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.045" />

<Button
    android:id="@+id/genqr"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Generate QR Code"
    android:textColor="@color/white"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.396" />

<EditText
    android:id="@+id/group"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="Enter your blood group : "
    android:inputType="textPersonName"
    android:minHeight="48dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.314" />

<RelativeLayout
    android:id="@+id/rl"
    android:layout_width="329dp"
    android:layout_height="290dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.492"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.811">

    <ImageView
        android:id="@+id/qr"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="-3dp"
        android:layout_marginTop="-26dp"
        tools:ignore="ImageContrastCheck">

    </ImageView>
```

```
<TextView
    android:id="@+id/textView5"
    android:layout_width="208dp"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="82dp"
    android:layout_marginTop="259dp"
    android:layout_marginEnd="39dp"
    android:layout_marginBottom="-1dp"
    android:textAlignment="center"
    android:textColor="@color/black"
    android:textSize="24sp"
    android:textStyle="bold"
    android:visibility="visible" />

<ImageView
    android:id="@+id/imageView"
    android:layout_width="43dp"
    android:layout_height="35dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="56dp"
    android:layout_marginTop="255dp"
    android:layout_marginEnd="230dp"
    android:layout_marginBottom="1dp"
    tools:ignore="ImageContrastCheck" />

</RelativeLayout>

<TextView
    android:id="@+id/textView6"
    android:layout_width="59dp"
    android:layout_height="18dp"
    android:text="Scan QR"
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="14sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.985"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.102" />

<Button
    android:id="@+id/qrdownload"
    android:layout_width="191dp"
```

```
        android:layout_height="50dp"
        android:text="Download QR"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.961" />

<ImageButton
    android:id="@+id/logscan"
    android:layout_width="48dp"
    android:layout_height="48dp"
    android:background="@color/cardview_shadow_end_color"
    android:contentDescription="@string/app_name"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.955"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.017"
    app:srcCompat="@drawable/logo" />
```

JAVA CODE

```
package com.example.scanlife;
import static com.example.scanlife.R.*;

import androidx.activity.result.ActivityResultLauncher;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.Manifest;
import android.app.AlertDialog;
import android.content.Context;
import android.content.DialogInterface;
import android.content.Intent;
import android.content.SharedPreferences;
import android.content.pm.PackageManager;
import android.graphics.Bitmap;
import android.graphics.drawable.BitmapDrawable;
import android.os.Build;
import android.os.Bundle;
import android.os.Environment;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.inputmethod.InputMethodManager;
```

```
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageButton;
import android.widget.ImageView;
import android.widget.RelativeLayout;
import android.widget.TextView;
import android.widget.Toast;

import com.google.zxing.BarcodeFormat;
import com.google.zxing.MultiFormatWriter;
import com.google.zxing.WriterException;
import com.google.zxing.common.BitMatrix;
import com.journeyapps.barcodescanner.BarcodeEncoder;
import com.journeyapps.barcodescanner.ScanContract;
import com.journeyapps.barcodescanner.ScanOptions;

import java.io.File;
import java.io.FileOutputStream;

public class Login_Activity extends AppCompatActivity{
    long i = 0;
    RelativeLayout relativeLayout;
    TextView dtv;
    EditText et1,et2,et3,et4;
    Button qrgen,dqr;
    ImageButton im1;
    ImageButton im2;
    ImageView qr1,dl;
    Bitmap bitmap;
    BitmapDrawable bitmapd;
    public static final String SHARED_PREFS = "shredprefs";

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(layout.activity_login);
        getSupportActionBar().setTitle("Add Family Details");
        et1=findViewById(R.id.nameqr);
        et2=findViewById(R.id.phno1qr);
        et3=findViewById(R.id.phno2qr);
        et4 = findViewById(R.id.group);
        im2 = findViewById(id.logscan);
        relativeLayout = findViewById(id.rl);
        qrgen=findViewById(R.id.genqr);
        qr1 = findViewById(R.id.qr);
        dqr=findViewById(id.qrdownload);
        dtv = findViewById(id.textView5);
        dl = findViewById(id.imageView);
```

```
//qr creator button
qrGen.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        String sText="Name:
"+et1.getText().toString().trim()+"\n"+"1st PhoneNumber:
"+et2.getText().toString().trim()+"\n"+"2nd PhoneNumber:
"+et3.getText().toString().trim()+"\nVictim Bloodgroup :
"+et4.getText().toString().trim();
        MultiFormatWriter writer=new MultiFormatWriter();

        try {
            BitMatrix matrix=writer.encode(sText,
BarcodeFormat.QR_CODE, 350, 350);
            BarcodeEncoder encoder=new BarcodeEncoder();
            Bitmap bitmap =encoder.createBitmap(matrix);
            dl.setImageResource(drawable.img);
            dtv.setText("Scan for Details");
            qr1.setImageBitmap(bitmap);

            InputMethodManager manager=(InputMethodManager)
getSystemService(
                Context.INPUT_METHOD_SERVICE

            );

            manager.hideSoftInputFromWindow(et1.getApplicationWindowToken()
                ,0);
        } catch (WriterException e) {
            e.printStackTrace();
        }

    }

});
im2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        scanCode();

    }

    private void scanCode() {
        ScanOptions options=new ScanOptions();
        options.setPrompt("Volume up to flash on");
        options.setBeepEnabled(true);
        options.setOrientationLocked(true);
        options.setCaptureActivity(CaptureAct.class);
        barLauncher.launch(options);
    }
}
```

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```
        }
        ActivityResultLauncher<ScanOptions>
barLauncher=registerForActivityResult(new ScanContract(), result ->
        {
            if (result.getContents()!=null)
            {
                AlertDialog.Builder builder=new
AlertDialog.Builder(Login_Activity.this);
                builder.setTitle("Result");
                builder.setMessage(result.getContents());
                builder.setPositiveButton("OK", new
DialogInterface.OnClickListener() {
                    @Override
                    public void onClick(DialogInterface dialog, int
which) {
                        dialog.dismiss();
                    }
                }).show();
            }
        });
});

//download button to save qr to gallery with entered name
dqr.setOnClickListener(v->{
    //i++;
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.M) {
        if (getApplicationContext().checkSelfPermission(Manifest.permission.WRITE_EXTERNAL_STORAGE) != PackageManager.PERMISSION_GRANTED) {
            //Toast.makeText(this, "Permission granted",
            Toast.LENGTH_SHORT).show();
            requestPermissions(new
            String[]{Manifest.permission.WRITE_EXTERNAL_STORAGE},1);
        }
        saveImage();
    }
});

private void saveImage() {
    relativeLayout.setDrawingCacheEnabled(true);
    relativeLayout.buildDrawingCache();

    relativeLayout.setDrawingCacheQuality(View.DRAWING_CACHE_QUALITY_HIGH);
    Bitmap bitmap = relativeLayout.getDrawingCache();
    save(bitmap);
}

private void save(Bitmap bitmap) {
```


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```
String root =
Environment.getExternalStorageDirectory().getAbsolutePath();
File file = new File(root + "/Download");
String filename = /*"qr" + i + ".jpg"*/
et1.getText().toString()+".jpeg";
File myfile = new File(file, filename);

if (myfile.exists()) {
    myfile.delete();
}
try {
    FileOutputStream fileOutputStream = new FileOutputStream(myfile);
    bitmap.compress(Bitmap.CompressFormat.JPEG, 100,
fileOutputStream);
    fileOutputStream.flush();
    fileOutputStream.close();
    //Toast.makeText(this, "Image saved Successfully",
Toast.LENGTH_SHORT).show();
    AlertDialog.Builder builder=new
AlertDialog.Builder(Login_Activity.this);
    builder.setTitle("Result");
    builder.setMessage("Image saved sucessfully\n"+"path : "+file);
    builder.setPositiveButton("OK", new
DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {
            dialog.dismiss();
        }
    }).show();
    relativeLayout.setDrawingCacheEnabled(false);
} catch (Exception e) {
    Toast.makeText(this, "Error" + e, Toast.LENGTH_SHORT).show();
}

}

//To check Storage permission granted or denied in a Mobile
@Override
public void onRequestPermissionsResult(int requestCode, @NonNull String[]
permissions, @NonNull int[] grantResults) {
    super.onRequestPermissionsResult(requestCode, permissions,
grantResults);
    if(requestCode==1){
        if(grantResults[0]==PackageManager.PERMISSION_GRANTED){
            Toast.makeText(this, "Permission granted",
Toast.LENGTH_SHORT).show();
        }
        else
        {
            Toast.makeText(this, "Permission denied",
Toast.LENGTH_SHORT).show();
        }
    }
}
```

```
//Methods to create Menu and its items
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    MenuInflater menuInflater = getMenuInflater();
    menuInflater.inflate(R.menu.logmenu, menu);
    return true;
}

@Override
public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    int id = item.getItemId();
    if (id == R.id.item1) {
        SharedPreferences sharedPreferences =
getSharedPreferences(SHARED_PREFS, MODE_PRIVATE);
        SharedPreferences.Editor editor = sharedPreferences.edit();

        editor.putString("name", "");
        editor.apply();

        Toast.makeText(Login_Activity.this, "Logout Successfull",
Toast.LENGTH_SHORT).show();
        Intent in = new Intent(Login_Activity.this, MainActivity.class);
        startActivity(in);
        finish();
        return true;
    }
    if(id == R.id.item2)
    {
        Intent ie = new
Intent(Login_Activity.this,Numbers_Activity.class);
        startActivity(ie);
        finish();
    }
    return super.onOptionsItemSelected(item);
}
@Override
public void onBackPressed() {
    super.onBackPressed();
    finishAffinity();
}
}}
```

APP SPLASH SCREEN

XML CODE

```
<?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="#9CFFC107"
```

```
tools:context=".opening">

<ImageView
    android:id="@+id/mainlogoimg"
    android:layout_width="154dp"
    android:layout_height="164dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.269"
    app:srcCompat="@drawable/img" />

<TextView
    android:id="@+id/sublogo"
    android:layout_width="259dp"
    android:layout_height="72dp"
    android:text="Scan Life"
    android:textAlignment="center"
    android:textAllCaps="false"
    android:textColor="#2196F3"
    android:textSize="60sp"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.618"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.625" />
</androidx.constraintlayout.widget.ConstraintLayout>
</androidx.constraintlayout.widget.ConstraintLayout>

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

    <!--menu items -->
    <item
        android:id="@+id/item1"
        android:icon="@drawable/out"
        android:title="Signout" />
    <item
        android:id="@+id/item2"
        android:icon="@drawable/out"
        android:title="Emergency No" />
</menu>
```

JAVA CODE

```
package com.example.scanlife;

import androidx.appcompat.app.AppCompatActivity;
```

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```
import android.content.Intent;
import android.os.Bundle;
import android.os.Handler;
import android.view.Window;
import android.view.WindowManager;
import android.view.animation.Animation;
import android.view.animation.AnimationUtils;
import android.widget.ImageView;
import android.widget.TextView;

public class opening extends AppCompatActivity {

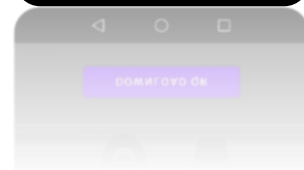
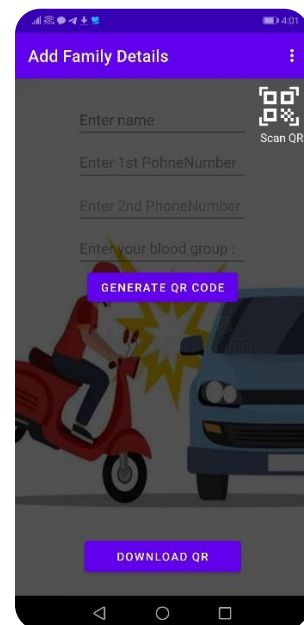
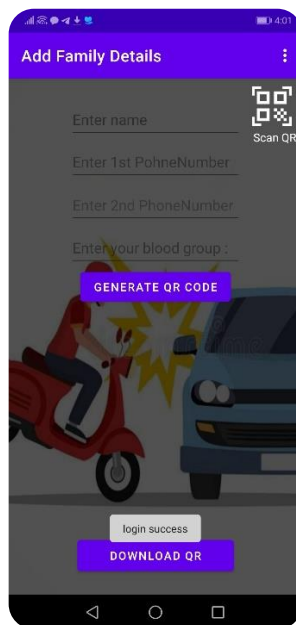
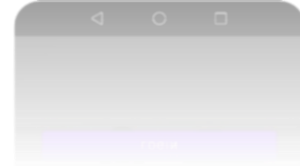
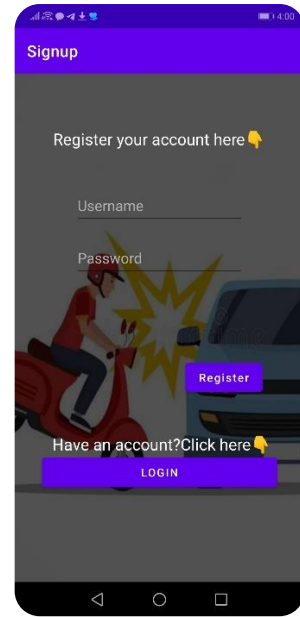
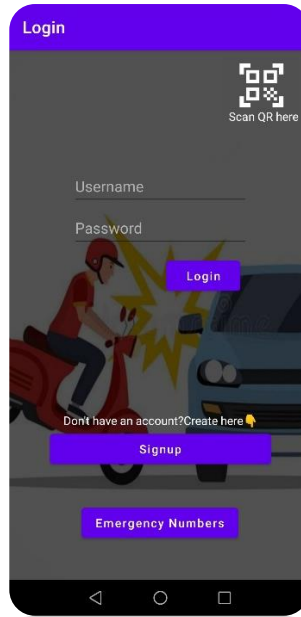
    ImageView img;
    TextView tv;
    Animation top,bottom;
    // Methods for opening screen of the app
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        requestWindowFeature(Window.FEATURE_NO_TITLE);

        this.getWindow().setFlags(WindowManager.LayoutParams.FLAG_FULLSCREEN,WindowMa
nager.LayoutParams.FLAG_FULLSCREEN);
        getSupportActionBar().hide();
        setContentView(R.layout.activity_opening);
        img = findViewById(R.id.mainlogoimg);
        tv = findViewById(R.id.sublogo);
        top =
AnimationUtils.loadAnimation(getApplicationContext(),R.anim.tob);
        bottom =
AnimationUtils.loadAnimation(getApplicationContext(),R.anim.bot);
        img.setAnimation(top);
        tv.setAnimation(bottom);
        new Handler().postDelayed(new Runnable() {
            @Override
            public void run() {
                Intent i = new Intent(opening.this,MainActivity.class);
                startActivity(i);
                finish();
            }
        },2000);
    }
}
```

OUTPUTSCREENS

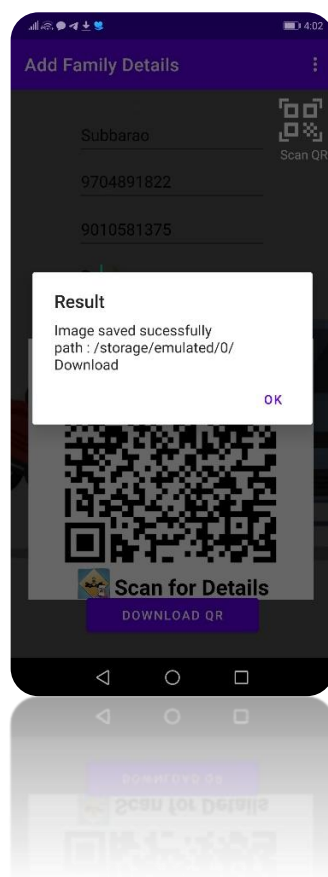
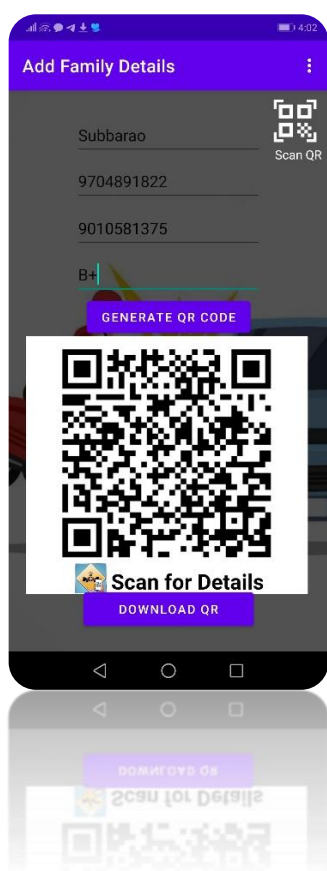
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CERTIFICATE OF COMPLETION



CERTIFICATE


FOR YOUR COMPLETION

THE CERTIFICATE IS PROUDLY PRESENTED TO


Kota Veera Venkata Satya Sai Tarun Kumar

of Department of Computer Science and Engineering from KKR & KSR Institute of Technology & Sciences (KITS), Guntur for successfully completion of Skill Oriented Course of 60 hours on 'Mobile APP Development', and cleared our certification exam with the score of 100% and completed all the assessments successfully in the dates of November 7-19 2022.


Madhu Parvathaneni
Director & CEO
Make Skilled, Hyderabad


Prof. R. Ramesh
HOD - CSE
KITS, AP


Dr. K. Hari Babu
Academic Director
KITS, AP


Dr. P. Babu
Principal
KITS, AP

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