



**an ISO 9001:2015 Company**

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## ***PROJECT REPORT ON***

Under Supervision-

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## ***ANDROID***

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***SUBMITTED BY***

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## *Acknowledgement*

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*I have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organizations. I would like to extend my sincere thanks to all of them.*

*I am highly indebted to Netcamp Solutions Private Limited. For their guidance and constant supervision as well as for providing necessary information regarding the project and also for their support in completing the project.*

*I would like to express my gratitude towards Mr. Santu Purkait, Director: Netcamp Solutions Private Limited For their kind co-operation and encouragement which help me in completion of this project.*

*I would like to express my special gratitude and thanks to organization persons for giving me such attention and time.*

*My thanks and appreciations also go to my colleagues in developing the project and people who have willingly helped me out with their abilities.*

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Name: Naina Sethia

College ID: A809150824045

Netcamp ID: 4250094

College: Amity University Chhattisgarh, Raipur

Date: 04-10-2025

Signature:

# *Netcamp Solutions Private Limited*

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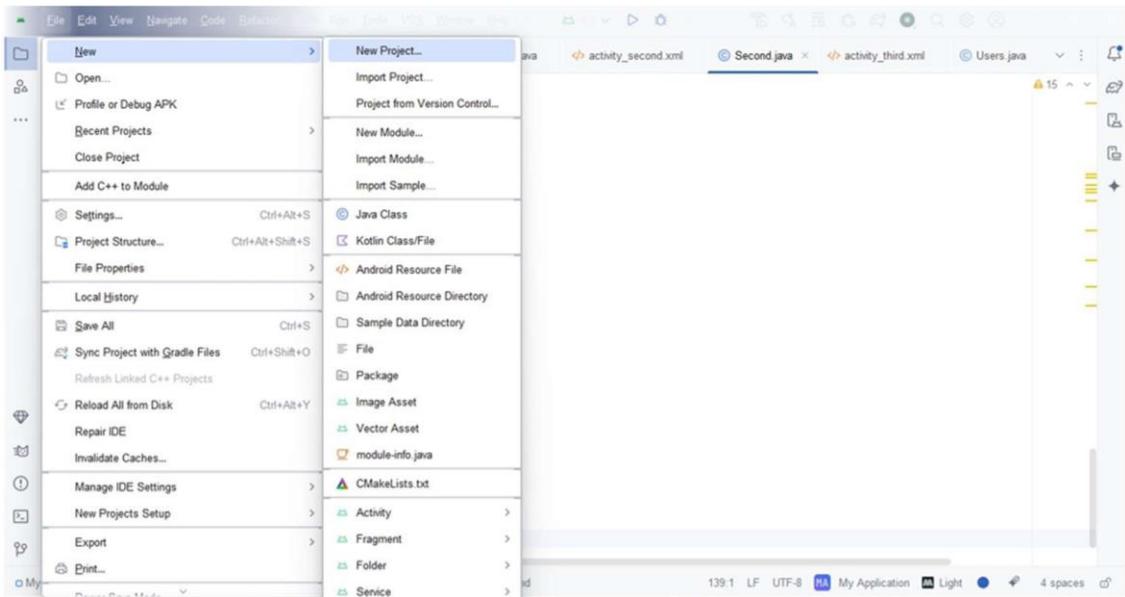


## *Certificate*

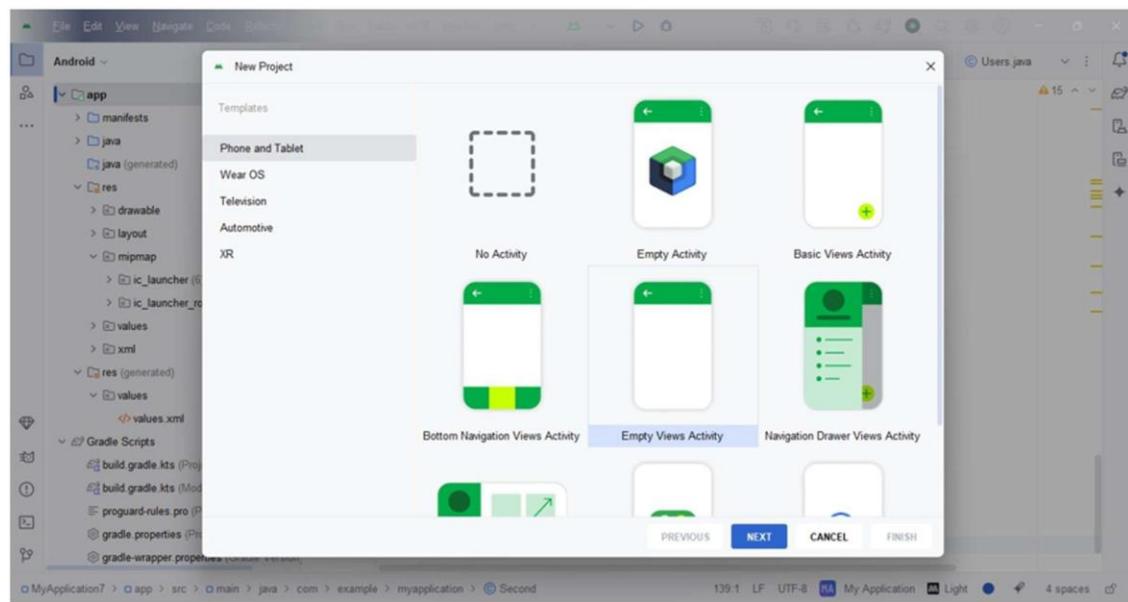
*This is to certify that, Naina Sethia, a student of program, Android App Development with Java Program has successfully completed a project on Android App Development under the guidance of Mr. Santu Purkait during the Dates: 4<sup>th</sup> August 2025 to 4<sup>th</sup> October 2025 by Netcamp Solutions Private Limited.*

# Create New Project

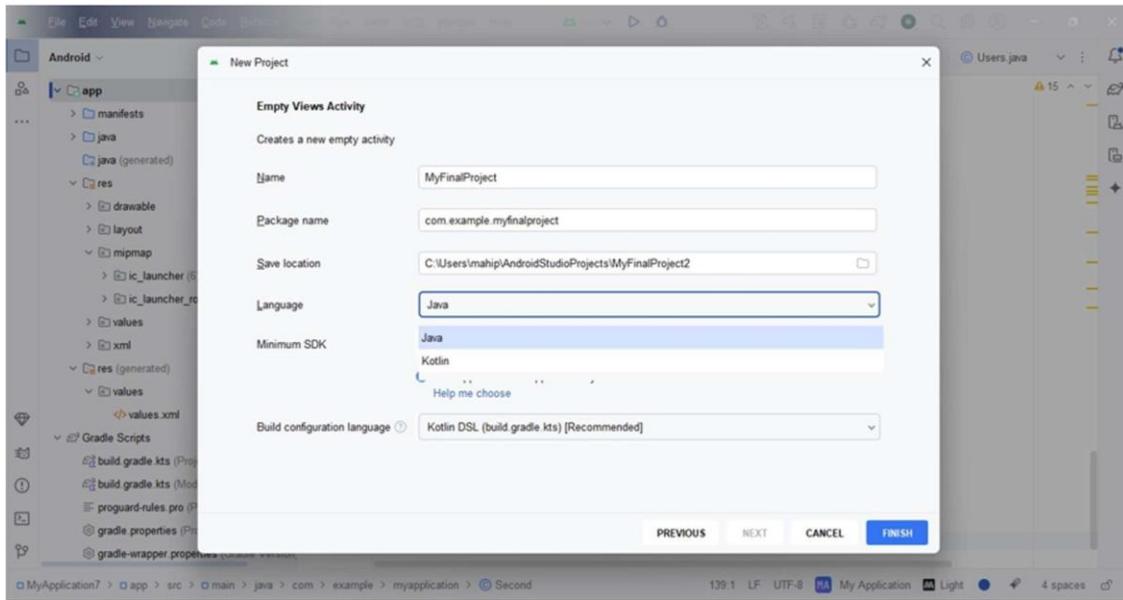
1. Open Android Studio, go to file→New→New Project, to create a new project.



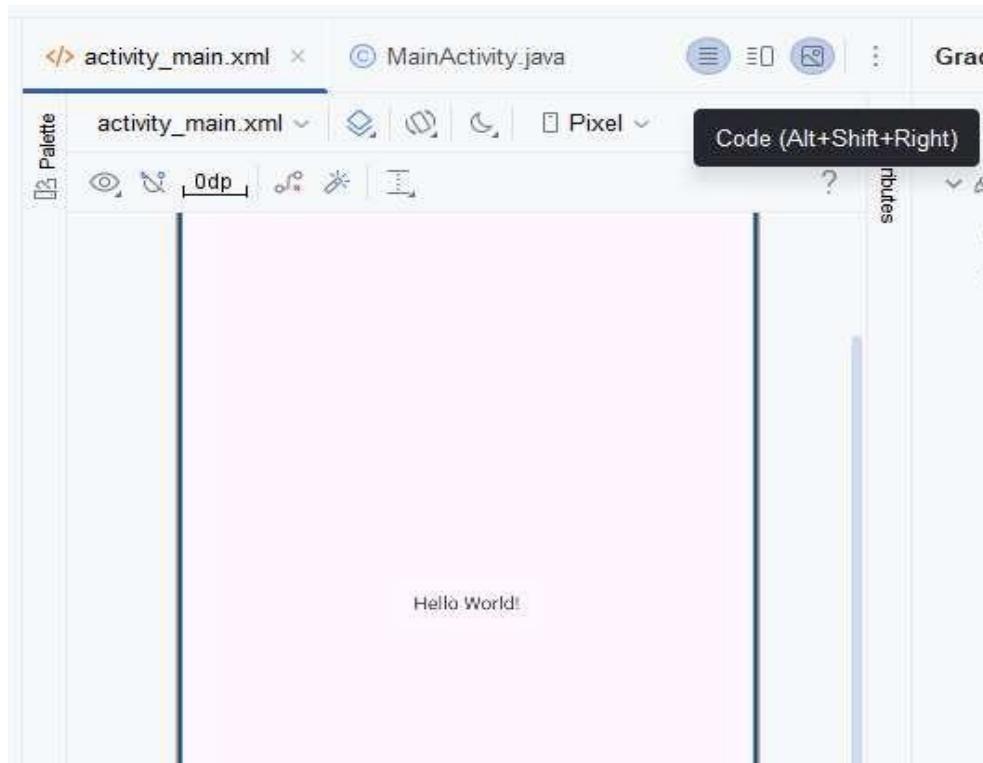
2. Click on Empty Views Activity for creating the main screen. Then next.



3. Name → give the project name. Then select the language as java.



4. To change the layout style, go to code(Alt+Shift+Right)



5. Change the constraint to Relative layout for a better mobile view.

The image shows two screenshots of the Android Studio code editor side-by-side, connected by a blue downward arrow indicating a transformation or update.

**Top Screenshot:** The code uses a `ConstraintLayout`. The XML snippet is:

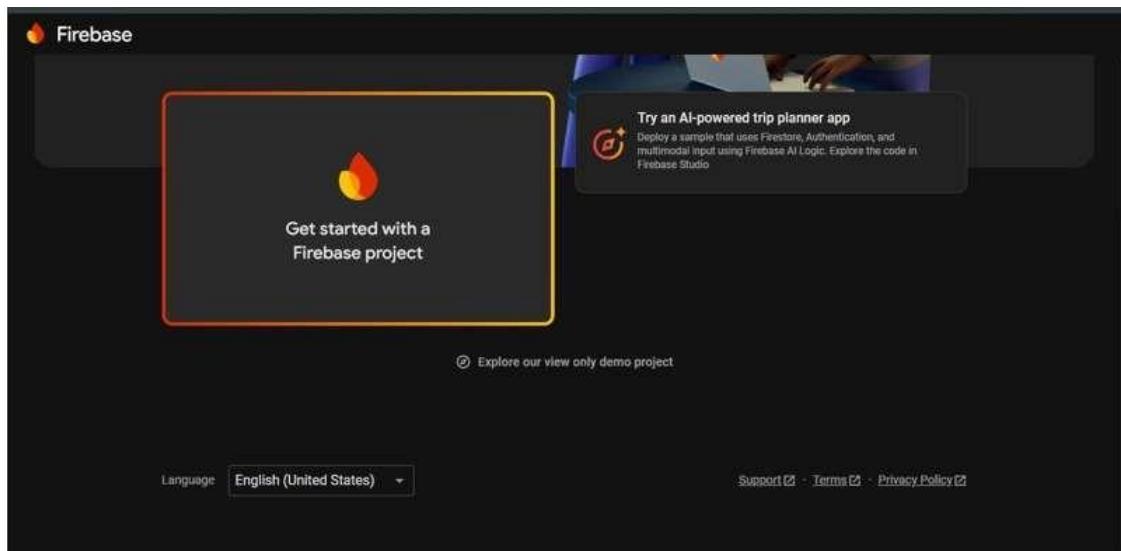
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res-auto"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
```

**Bottom Screenshot:** The code has been updated to use a `RelativeLayout`. The XML snippet is:

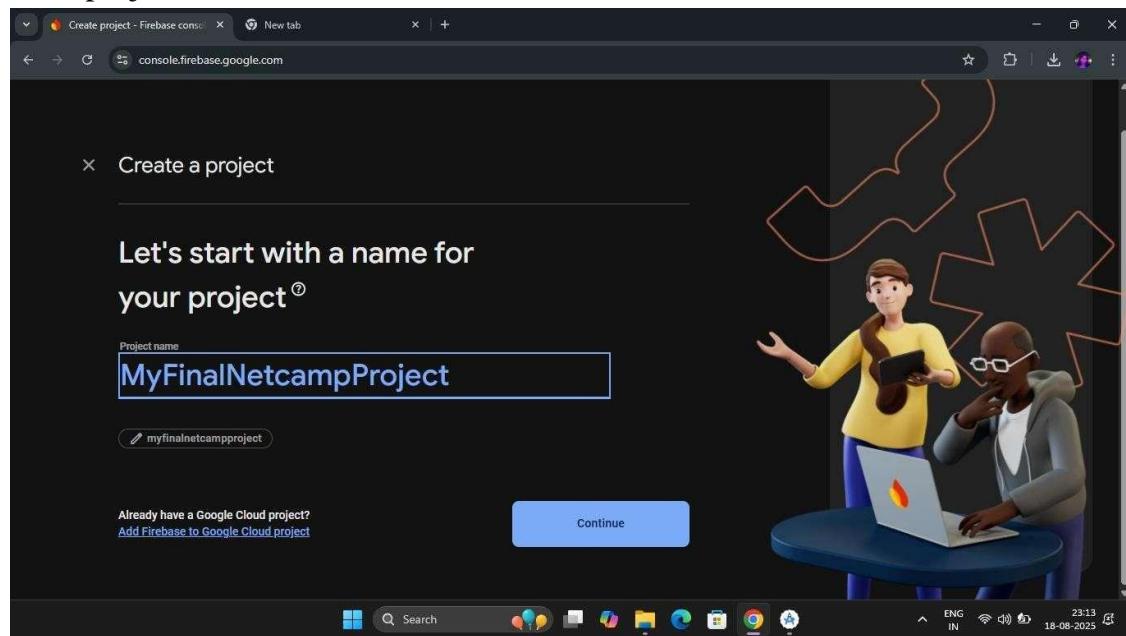
```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res-auto"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
```

# Firebase Set UP

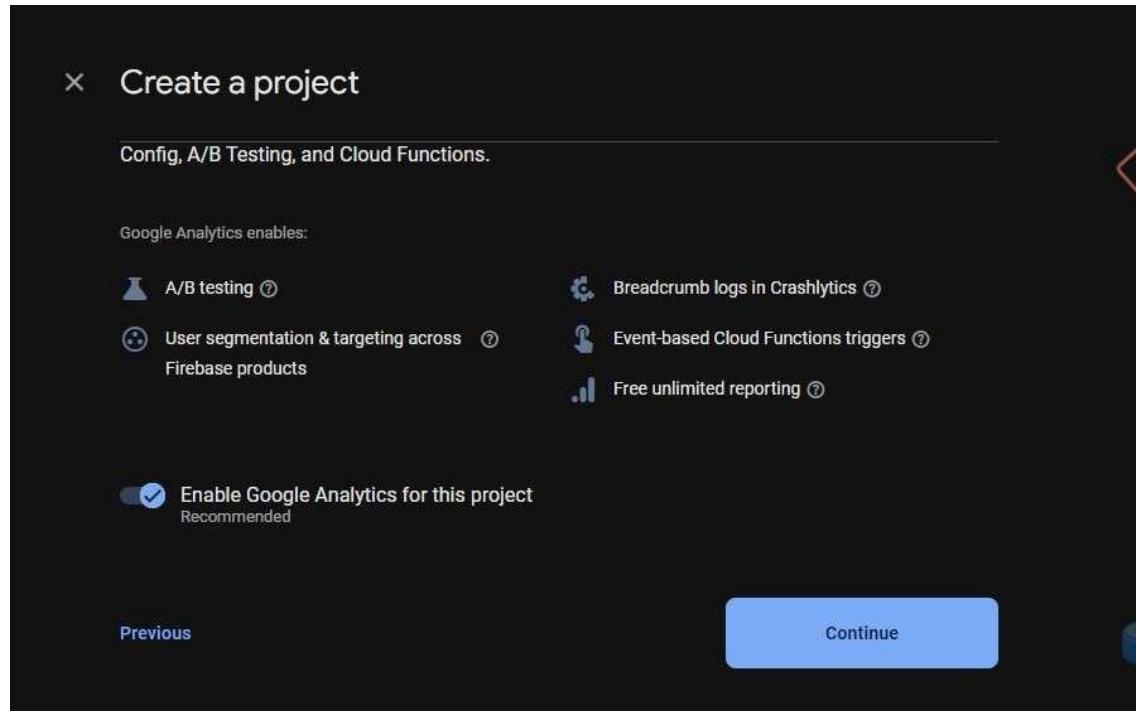
1. Google Search Firebase → login in your gmail → Firebase to Go to Console → Get started with Firebase



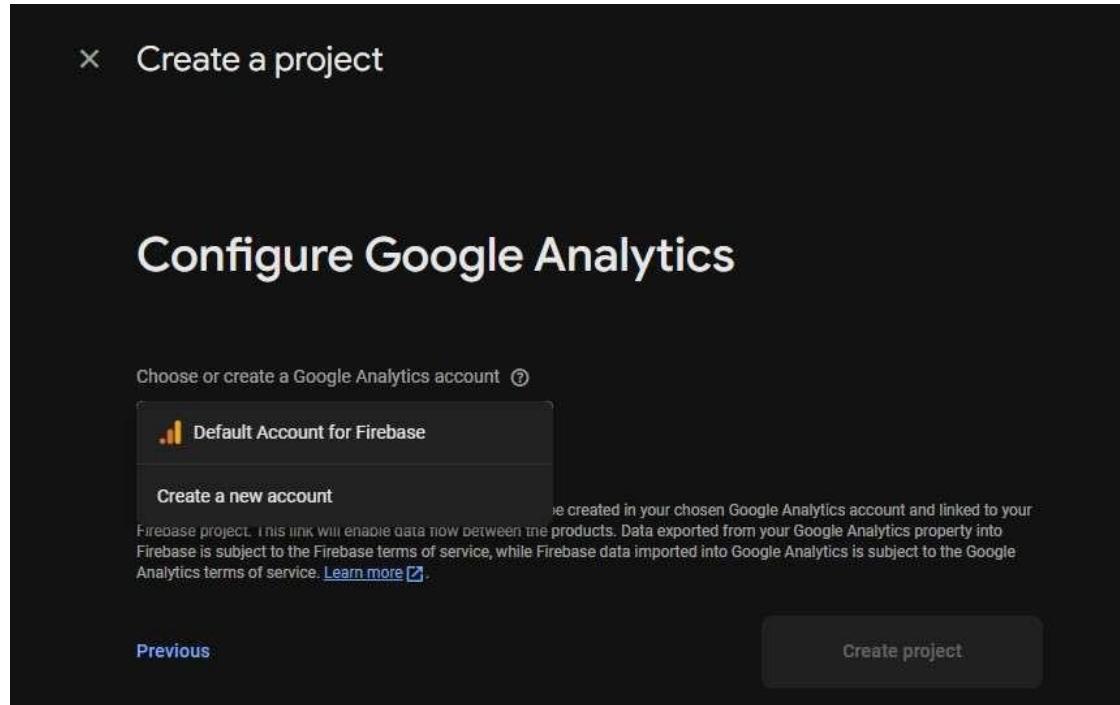
2. Give project name and continue.



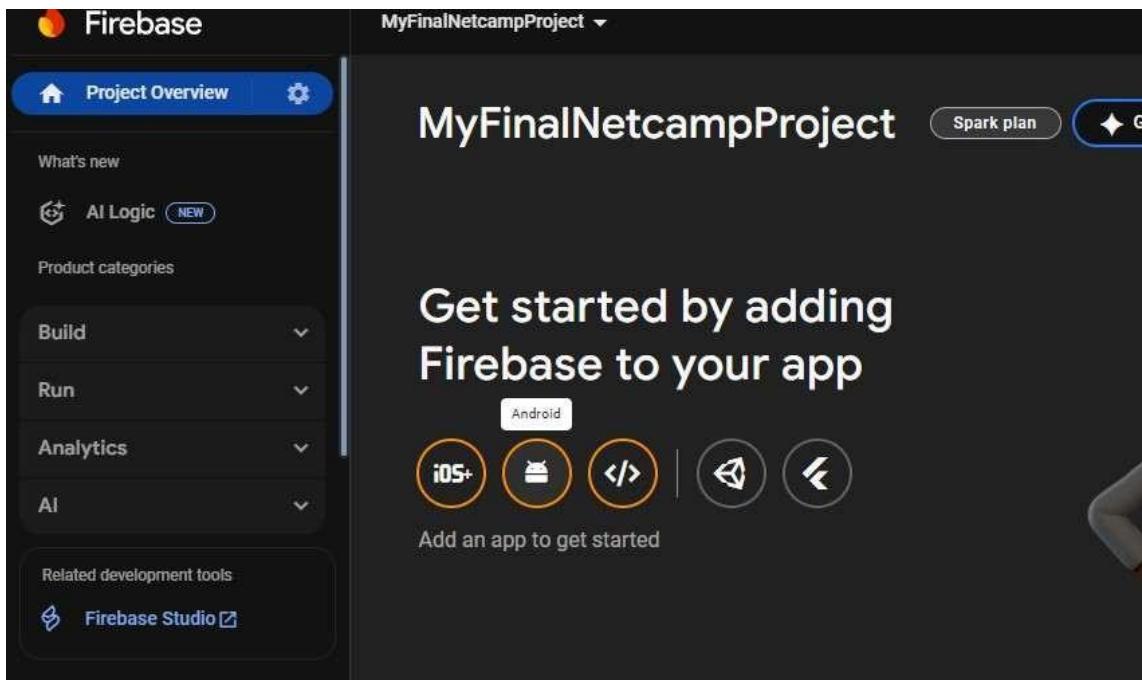
3. Enable Google Analytics for AI Assistance and continue.



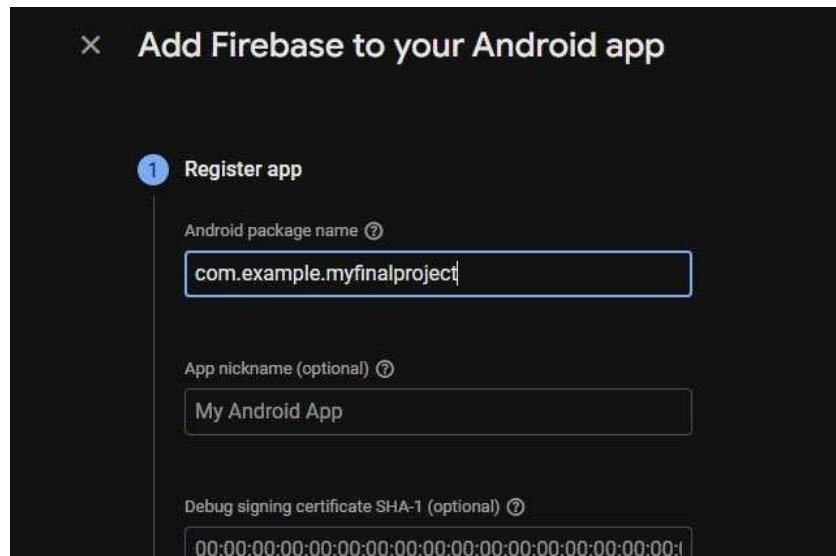
4. Configure → Select Default Account for Firebase → Create Project.



5. Click on the Android icon to get started.

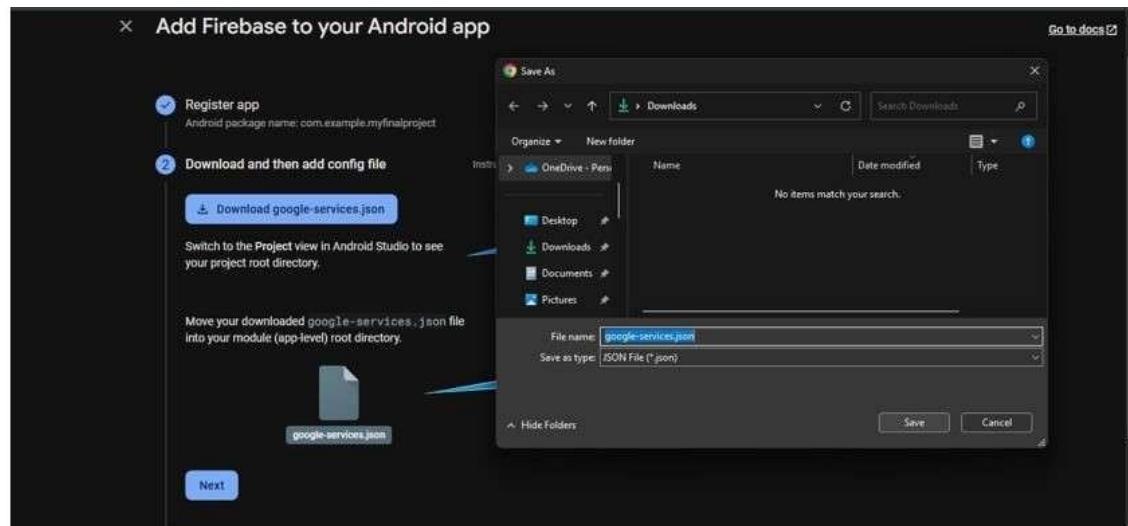


6. Add the android package from Android Studio → MainActivity.java, here.

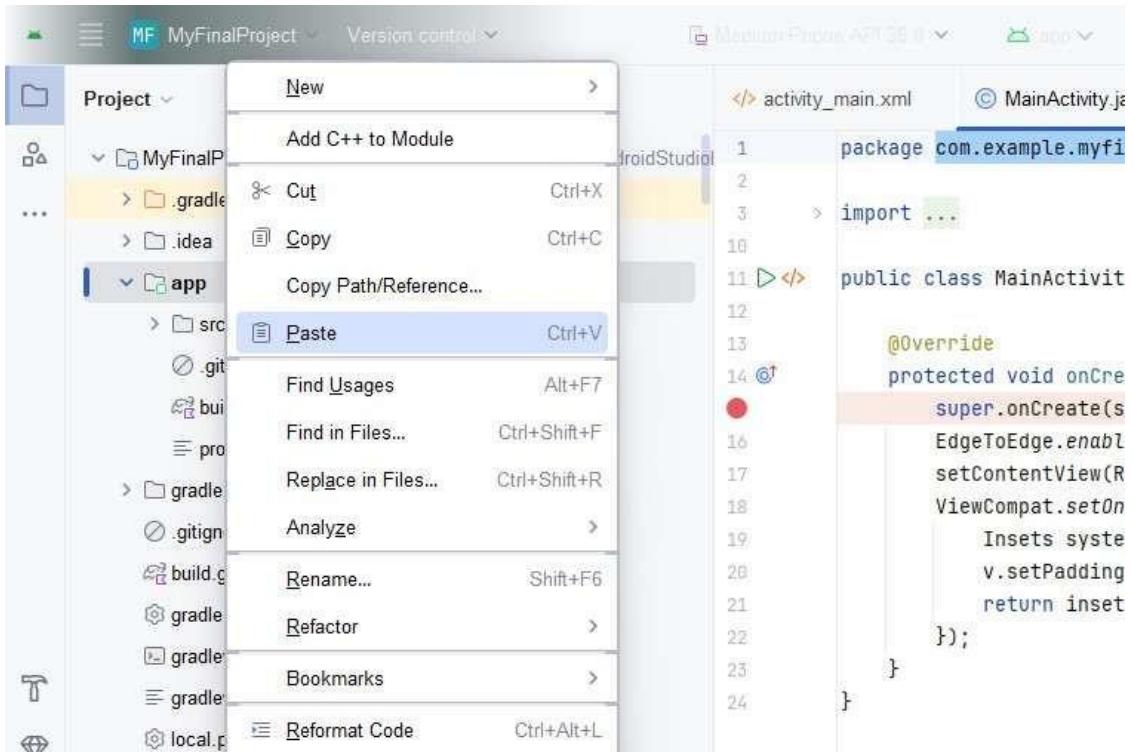


```
</> activity_main.xml      © MainActivity.java <>  
1 package com.example.myfinalproject;  
2  
3 > import ...   
4  
5 public class MainActivity extends AppCompatActivity {  
6  
7     @Override  
8     protected void onCreate(Bundle savedInstanceState) {  
9         super.onCreate(savedInstanceState);  
10        setContentView(R.layout.activity_main);  
11    }  
12 }  
13  
14
```

7. Download the json file and add it to Android Studio to add firebase to your android project.



Paste the json file in Project→app→right click and paste



8. Copy both the implementations line from dependencies.

```
Module (app-level) Gradle file (<project>/<app-module>/build.gradle.kts)

plugins {
    id('com.android.application')
    // Add the Google services Gradle plugin
    id('com.google.gms.google-services')
    ...
}

dependencies {
    // Import the Firebase BoM
    implementation(platform('com.google.firebase:firebase-bom:34.1.0'))

    // TODO: Add the dependencies for Firebase products you want to use
    // When using the BoM, don't specify Versions in Firebase dependencies
    implementation('com.google.firebase:firebase-analytics')

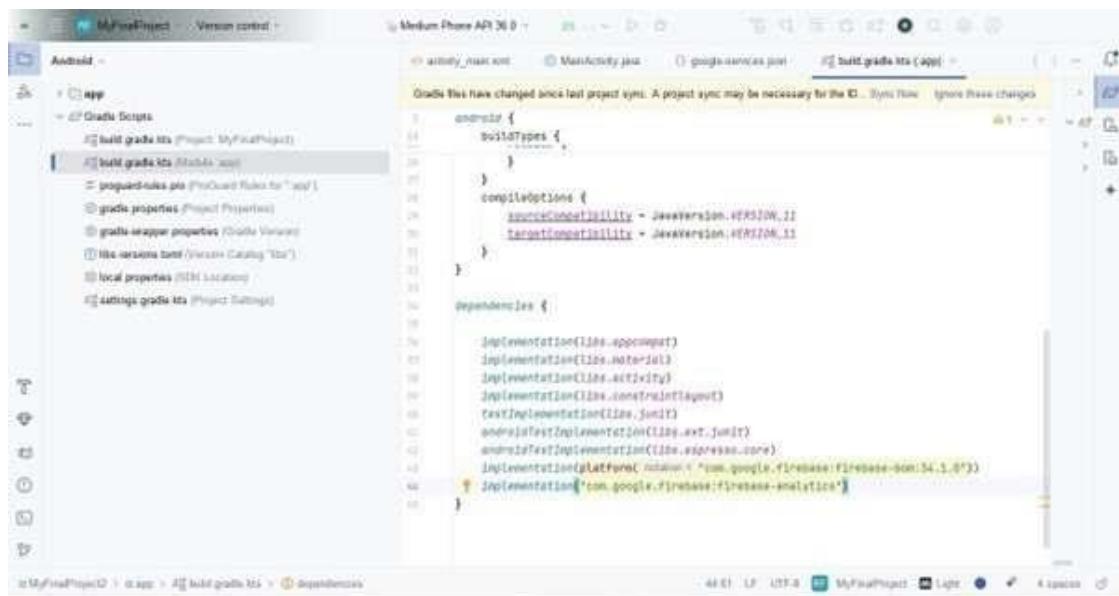
    // Add the dependencies for any other desired Firebase products
    // https://firebase.google.com/docs/android/setup#available-libraries
}
```

By using the Firebase Android BoM, your app will always use compatible Firebase library versions. [Learn more](#)

3. After adding the plugin and the desired SDKs, sync your Android project with Gradle files.

Previous      Next

And paste them in the gradle module app file under dependencies Section.



9. Now continue to console.

The screenshot shows a step-by-step guide for adding Firebase to an Android app. The steps are:

- Register app (completed, indicated by a checkmark)
- Download and then add config file
- Add Firebase SDK
- Next steps

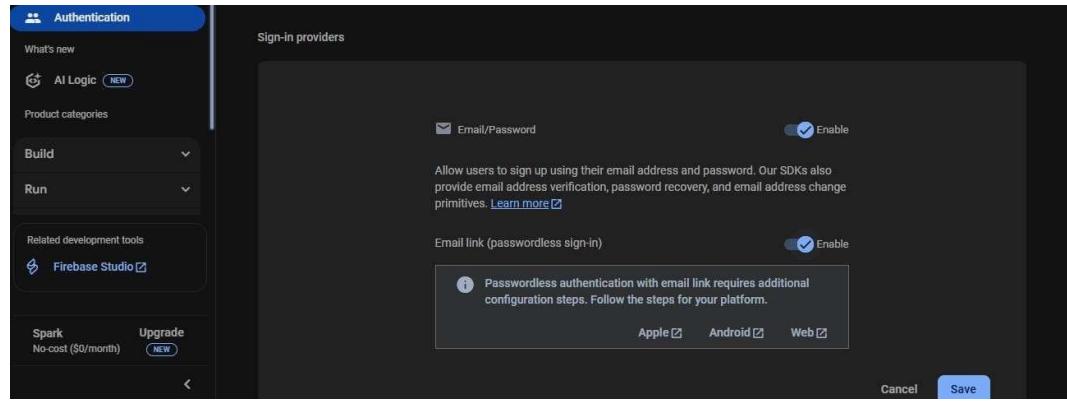
Below the steps, there is a message: "You're all set! Make sure to check out the [documentation](#) to learn how to get started with each Firebase product that you want to use in your app. You can also explore [sample Firebase apps](#). Or, continue to the console to explore Firebase." At the bottom, there are "Previous" and "Continue to console" buttons.

10. Go to build and then click authentication → Get Started.

The screenshot shows the Firebase Project Overview for "MyFinalNetcampProject". The left sidebar has a "Build" category with "Authentication" selected. The main area displays a 3D character holding a yellow flame-like object, with the text "MyFinalNetcampProject" and "com.example.myfi...". A "Getting started? Tell Gemini about your project" button is visible at the top right.

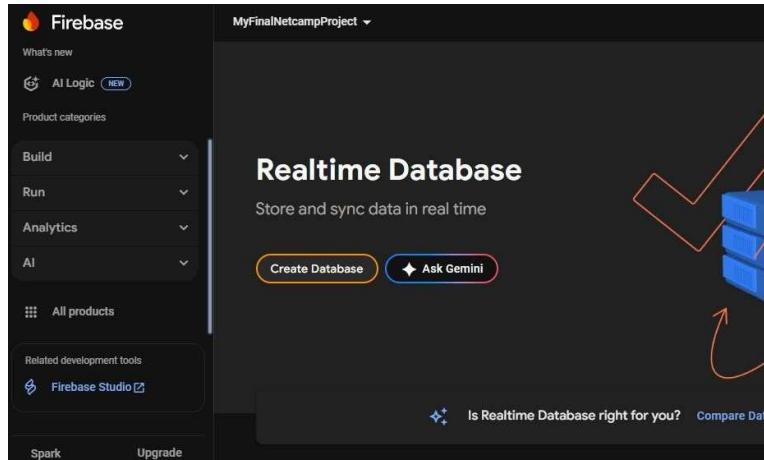
11. Click on email/password and enable both the button to enable this option for sign in.

The screenshot shows the "Authentication" settings page for "MyFinalNetcampProject". The "Sign-in method" tab is selected. Under "Sign-in providers", there is a section for "Native providers" with "Email/Password" and "Phone" listed. There is also a section for "Additional providers" with "Google", "Facebook", "Game Center", and "Apple" listed.

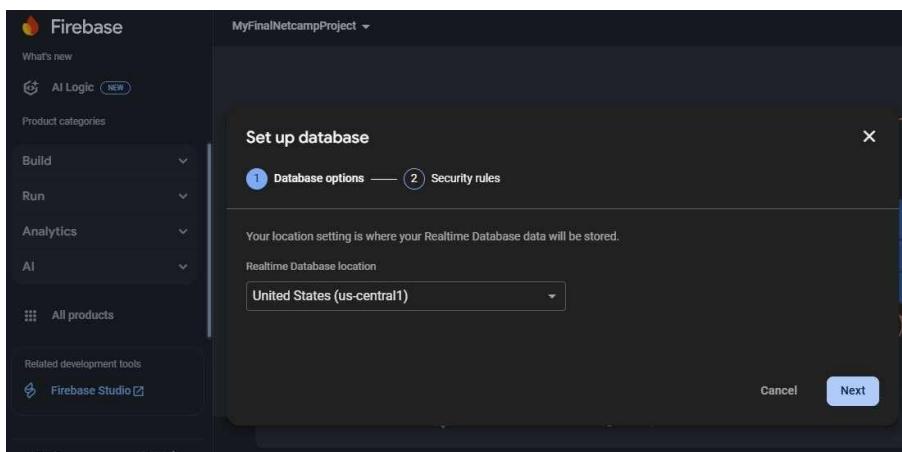


# Firebase Realtime Database

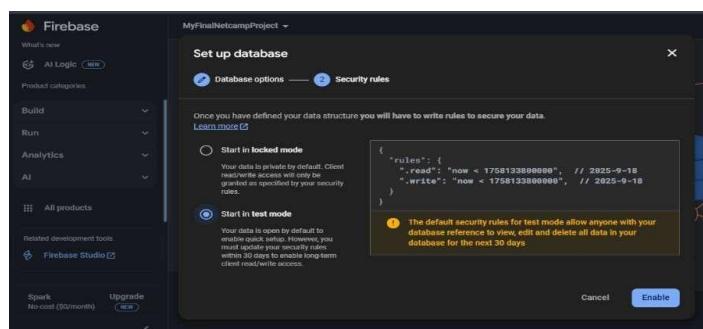
1. Go to build → Realtime Database → Create Database



2. Click next with the default location.



3. Select the test mode and click enable.

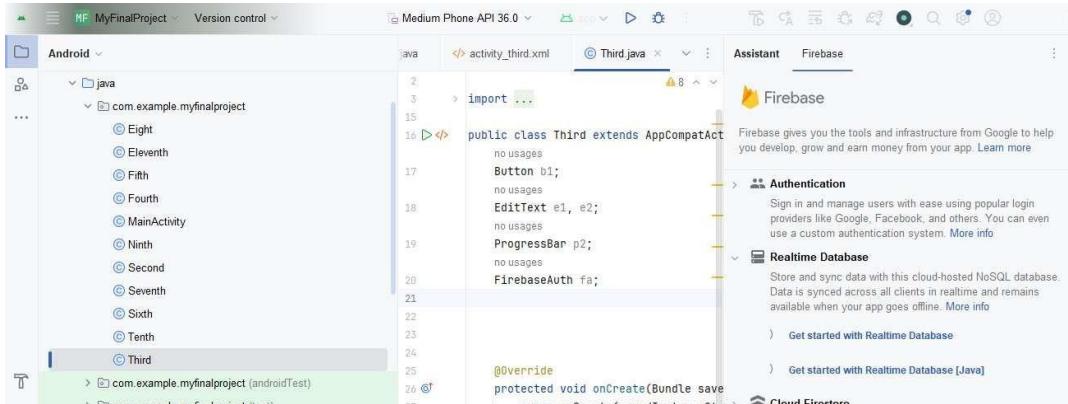


4. Add key value pair and fill Users as key and “users” as value.

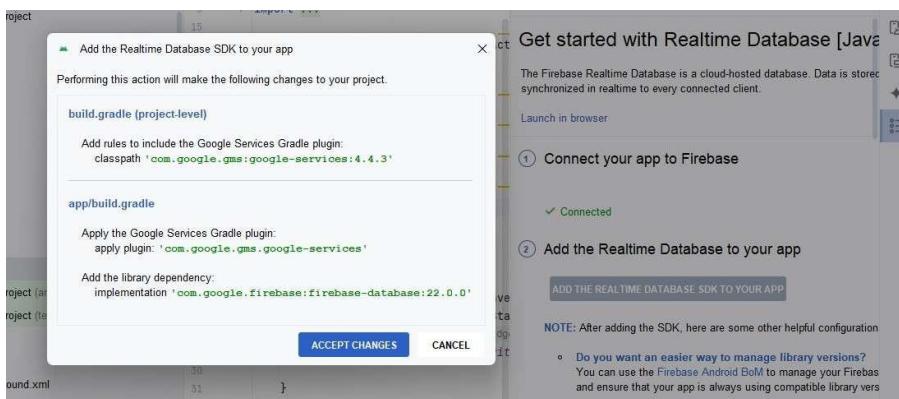
The screenshot shows the Firebase Realtime Database interface for a project named "MyFinalNetcampProject". On the left, there's a sidebar with categories like Build, Run, Analytics, AI, and All products. The main area is titled "Realtime Database" with tabs for Data, Rules, Backups, Usage, and Extensions. A banner at the top right says "Need help with Realtime Database? Ask Gemini". Below the tabs, there's a link to "https://myfinalnetcampproject-7daef-default-rtbd.firebaseio.com/" and a URL input field with "https://myfinalnetcampproject-7daef-default-rtbd.firebaseio.com/" and "users" selected. There are "Cancel" and "Add" buttons. The "Add" button is highlighted with a blue border.

# Firebase-Android Connection

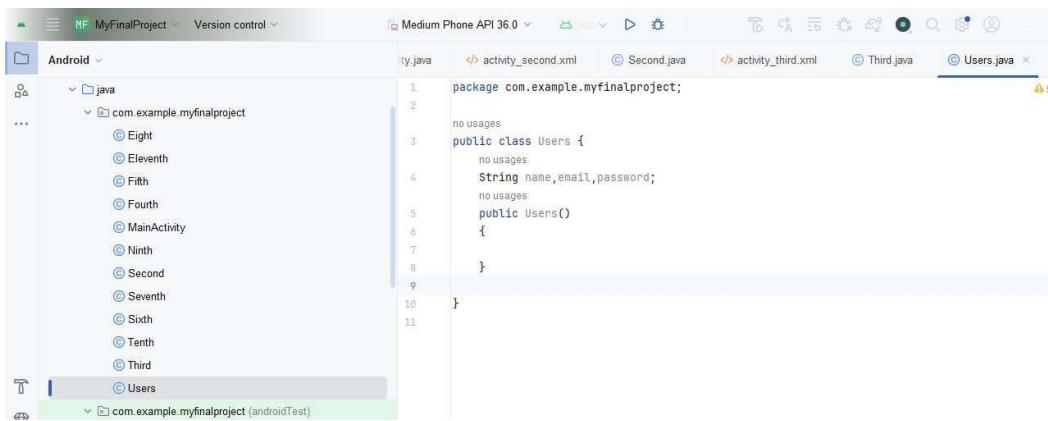
1. Go to main menu → Tools → Firebase → Realtime Database[Java]



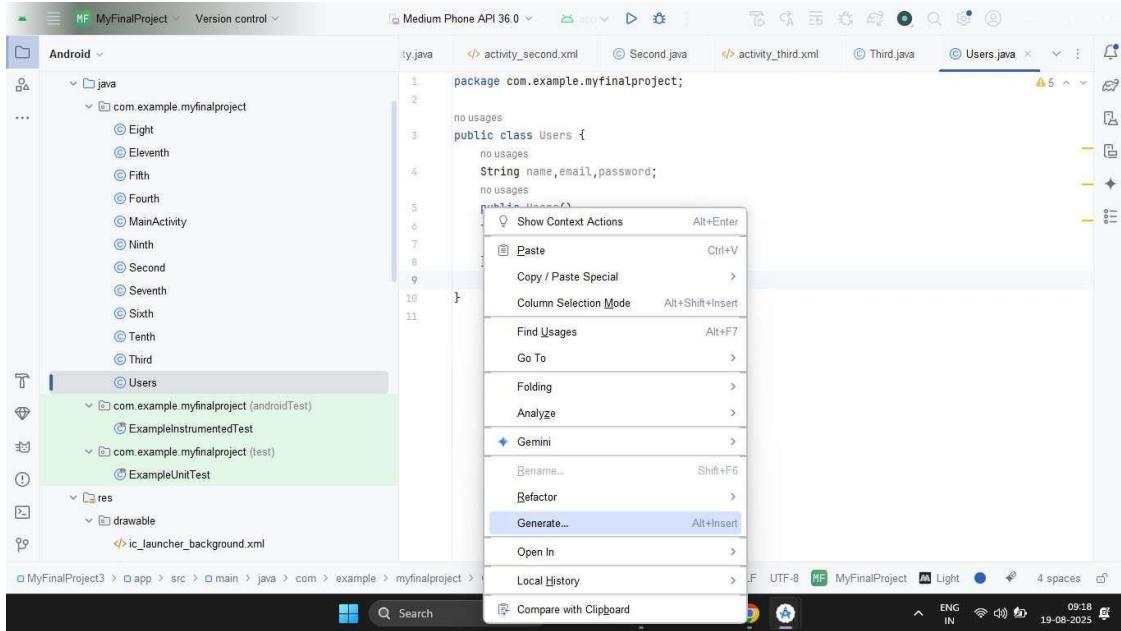
2. Then add the realtime database to your app → Accept Changes.



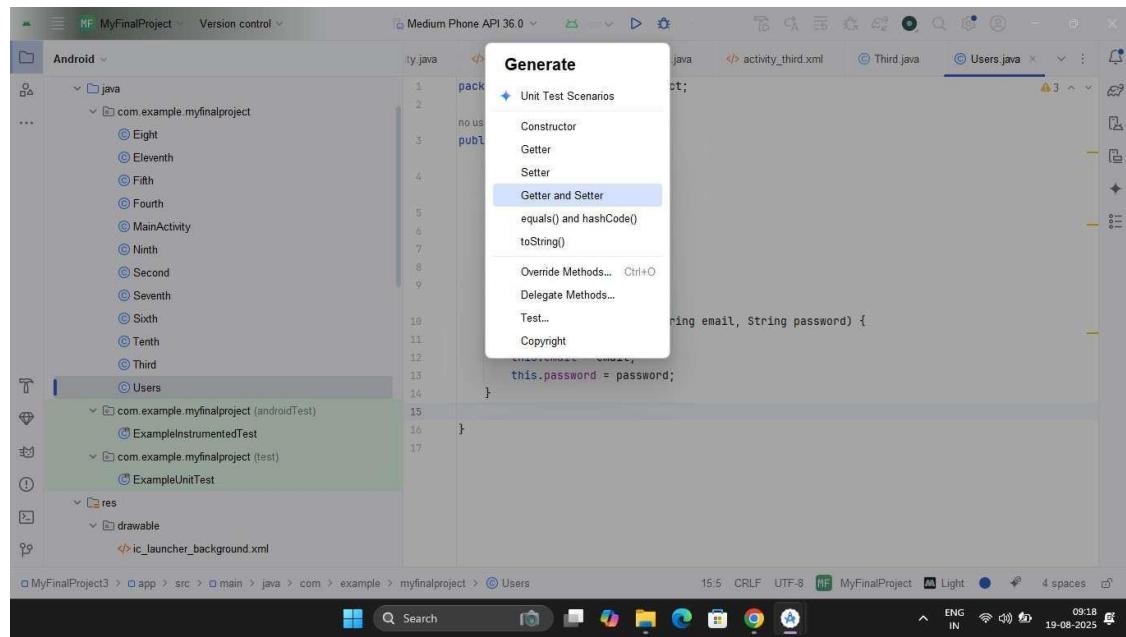
3. Right click com.example.myfinalproject → new → java class → Users and add code



4. Right click after the ‘}’ → Generate→constructor→select all three Methods and click ok

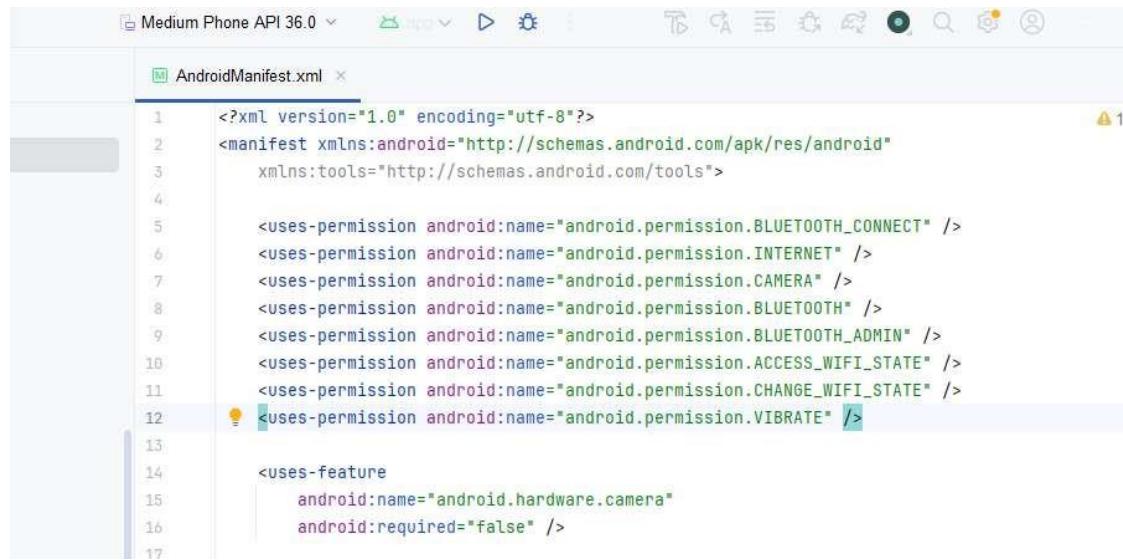


5. Next again, after the last method’s “}”, right click→generate→Getter and Setter→select three methods again and click ok.



# Setting Up Manifest File in Android.

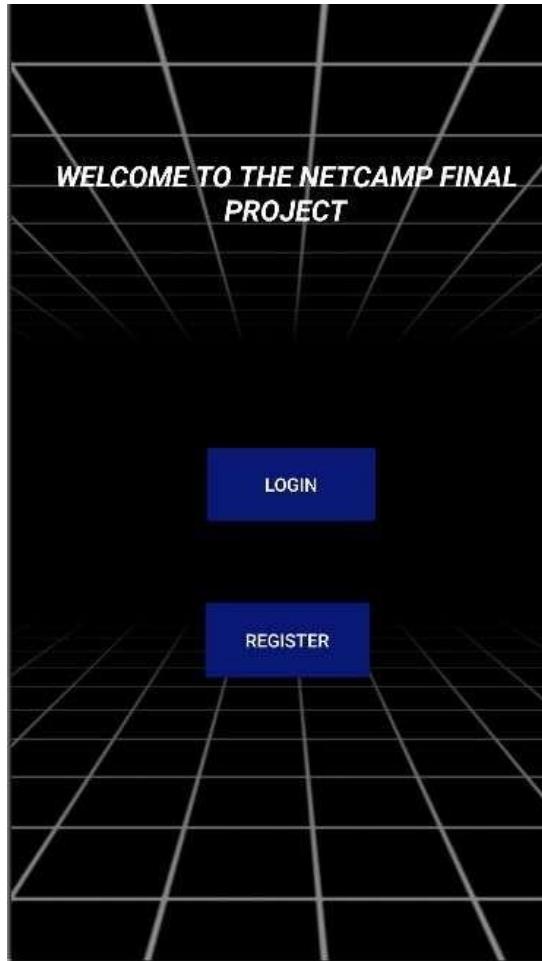
1. Go to Android → app → manifests → AndroidManifest.xml and add user permissions.



```
Medium Phone API 36.0
AndroidManifest.xml

1 <?xml version="1.0" encoding="utf-8"?>
2 <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:tools="http://schemas.android.com/tools">
4
5     <uses-permission android:name="android.permission.BLUETOOTH_CONNECT" />
6     <uses-permission android:name="android.permission.INTERNET" />
7     <uses-permission android:name="android.permission.CAMERA" />
8     <uses-permission android:name="android.permission.BLUETOOTH" />
9     <uses-permission android:name="android.permission.BLUETOOTH_ADMIN" />
10    <uses-permission android:name="android.permission.ACCESS_WIFI_STATE" />
11    <uses-permission android:name="android.permission.CHANGE_WIFI_STATE" />
12    <uses-permission android:name="android.permission.VIBRATE" />
13
14    <uses-feature
15        android:name="android.hardware.camera"
16        android:required="false" />
17
```

# MainActivity.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    style="@style/Base.Theme.MyFinalProject"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    android:textAlignment="center"
    android:textDirection="firstStrong"
    tools:context=".MainActivity">

    <EditText
```

```
    android:id="@+id/editTextText3"
    android:layout_width="0dp"
    android:layout_height="0dp"
    android:ems="10"
    android:inputType="text"
    android:text="Name" />
```

```
<TextView
    android:id="@+id/textView8"
    android:layout_width="379dp"
    android:layout_height="147dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="15dp"
    android:layout_marginTop="119dp"
    android:text="Welcome      to      the      Netcamp      Final      Project"
    android:textAlignment="center"
    android:textAllCaps="true"
    android:textAppearance="@style/TextAppearance.AppCompat.Large"
    android:textColor="@color/white"
    android:textStyle="bold|italic" />
```

```
<Button
    android:id="@+id/button4"
    style="@style/Animation.Design.BottomSheetDialog"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="0dp"
    android:layout_marginTop="335dp"
    android:background="@color/material_dynamic_primary20"
    android:text="Login"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button5"
```

```
        android:layout_width="match_parent"
        android:layout_height="62dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="0dp"
        android:layout_marginBottom="231dp"
        android:background="@android:color/holo_purple"
        android:text="Offline"
        android:textColor="@color/white"
    </RelativeLayout>

```

Login" />

***MainActivity.java:***

```
package com.example.myfinalproject;

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

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

import com.google.firebase.auth.FirebaseAuth;

public class MainActivity extends AppCompatActivity {
    Button b1,b2;

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

```

```
EdgeToEdge.enable(this);
setContentView(R.layout.activity_main);
b1=(Button) findViewById(R.id.button4);
b2=(Button) findViewById(R.id.button5);

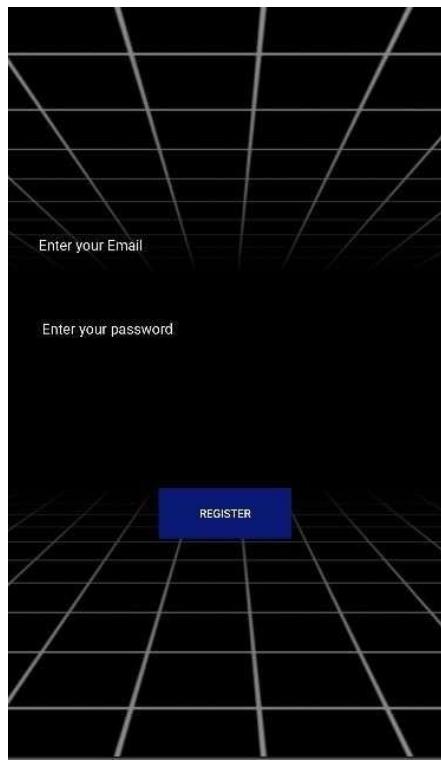
b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i=new Intent(MainActivity.this, Third.class);
        startActivity(i);
        finish();

    }
});

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

    }
});
}
```

# Second.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    tools:context=".Second">

    <EditText
        android:id="@+id/editTextText"
        android:layout_width="374dp"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="18dp"
        ...>
```

```
    android:layout_marginTop="104dp"
    android:backgroundTint="@color/white"
    android:ems="10"
    android:hint="enter your email"
    android:inputType="text"
    android:textColor="@color/white"
    android:textColorHighlight="@color/white"
    android:textColorHint="@color/white" />
```

```
<EditText
    android:id="@+id/editTextText2"
    android:layout_width="368dp"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="21dp"
    android:layout_marginTop="256dp"
    android:backgroundTint="@color/white"
    android:ems="10"
    android:hint="enter your password"
    android:inputType="text"
    android:textColorHint="@color/white" />
```

```
<Button
    android:id="@+id/button6"
    android:layout_width="166dp"
    android:layout_height="63dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="108dp"
    android:layout_marginBottom="136dp"
    android:background="@android:color/holo_purple"
    android:text=" Login (Offline)"
    android:textColor="@color/white" />
```

```
<ProgressBar
    android:id="@+id/progressBar"
```

```
    style="?android:attr/progressBarStyle"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="180dp"
    android:layout_marginBottom="283dp"
    android:backgroundTint="@color/white"
    android:indeterminateTint="@color/white"
    android:progressBackgroundTint="@color/white"
    android:visibility="invisible"
    tools:visibility="invisible" />
</RelativeLayout>
```

### *Second.java:*

```
package com.example.myfinalproject;

import static android.view.View.INVISIBLE;
import static android.view.View.VISIBLE;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.text.InputType;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ProgressBar;
import android.widget.Toast;

import androidx.activity.EdgeToEdge;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
```

```
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;

public class Second extends AppCompatActivity {
    Button b1;
    EditText e1,e2;
    FirebaseAuth fa;
    ProgressBar p1;

    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_second);
        b1=(Button) findViewById(R.id.button6);
        e1=(EditText) findViewById(R.id.editTextText);
        e2=(EditText) findViewById(R.id.editTextText2);

        e2.setInputType(InputType.TYPE_CLASS_TEXT|InputType.TYPE_TEXT_VARIATION_PASSWORD);
        p1=(ProgressBar) findViewById(R.id.progressBar);
        fa= FirebaseAuth.getInstance();
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String s1= e1.getText().toString();
                String s2= e2.getText().toString();
                if(s1.isEmpty())
                {
                    e1.setError("Please fill email");
                    return;
                }
                else
```

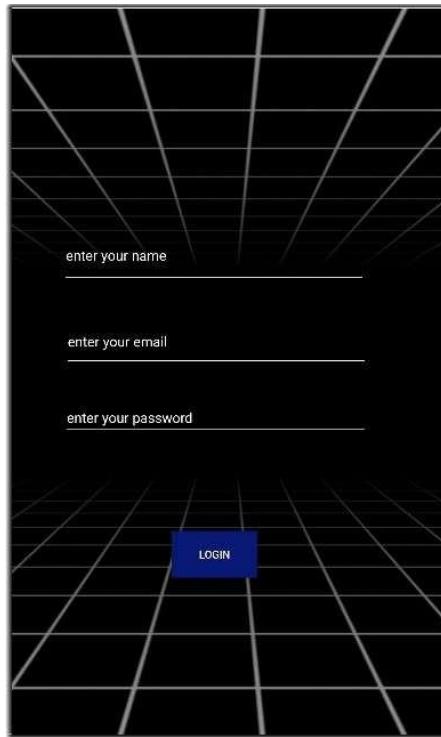
```

{
    if (s2.isEmpty()) {
        e2.setError("Please fill password");
        return;
    } else {
        p1.setVisibility(VISIBLE);

fa.createUserWithEmailAndPassword(s1,s2).addOnCompleteListener(new
OnCompleteListener<AuthResult>() {
    @Override
    public void onComplete(@NonNull Task<AuthResult> task) {
        if(task.isSuccessful())
        {
            p1.setVisibility(INVISIBLE);
            Toast.makeText(Second.this, "Login Successful",
Toast.LENGTH_SHORT).show();
            Intent i3=new Intent(Second.this, Fourth.class);
            startActivity(i3);
            finish();
        }
        else
        {
            p1.setVisibility(INVISIBLE);
            Toast.makeText(Second.this, "Database not updated",
Toast.LENGTH_SHORT).show();
        }
    }
});

}
});
```

# Third.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    tools:context=".Third">

    <EditText
        android:id="@+id/editTextText4"
        android:layout_width="390dp"
        android:layout_height="65dp"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_marginTop="178dp" />
```

```
    android:layout_marginEnd="14dp"
    android:backgroundTint="@color/white"
    android:ems="10"
    android:hint="enter your email"
    android:inputType="text"
    android:textColorHint="@color/white" />
```

```
<EditText
    android:id="@+id/editTextText5"
    android:layout_width="391dp"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="13dp"
    android:layout_marginTop="282dp"
    android:backgroundTint="@color/white"
    android:ems="10"
    android:hint="enter your password"
    android:inputType="text"
    android:textColorHint="@color/white" />
```

```
<ProgressBar
    android:id="@+id/progressBar2"
    style="?android:attr/progressBarStyle"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="178dp"
    android:layout_marginBottom="293dp"
    android:progressBackgroundTint="@color/white"
    android:progressTint="@color/white"
    android:secondaryProgressTint="@color/white"
    android:visibility="invisible"
    tools:visibility="invisible" />
```

```
<Button
```

```
    android:id="@+id/button3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="157dp"
    android:layout_marginBottom="124dp"
    android:background="@android:color/holo_purple"
    android:text="Login"
    android:textColor="@color/white" />

<EditText
    android:id="@+id/editTextText6"
    android:layout_width="390dp"
    android:layout_height="72dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="13dp"
    android:layout_marginTop="84dp"
    android:backgroundTint="@color/white"
    android:ems="10"
    android:hint="enter your name"
    android:inputType="text"
    android:textColorHint="@color/white" />
</RelativeLayout>
```

***Third.java:***

```
package com.example.myfinalproject;

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

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

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.database.DatabaseReference;
import com.google.firebaseio.database.FirebaseDatabase;

public class Third extends AppCompatActivity {
    Button b1;
    EditText e1, e2,e3;
    ProgressBar p2;
    FirebaseAuth fa;
    DatabaseReference db;
    FirebaseDatabase fd;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_third);
        b1=(Button) findViewById(R.id.button3);
        e1=(EditText) findViewById(R.id.editTextText6);
        e2=(EditText) findViewById(R.id.editTextText4);
        e3=(EditText) findViewById(R.id.editTextText5);

        e3.setInputType(InputType.TYPE_CLASS_TEXT|InputType.TYPE_TEXT_VARI
```

```
ATION_PASSWORD);
    p2=(ProgressBar) findViewById(R.id.progressBar2);
    fa= FirebaseAuth.getInstance();
    fd= FirebaseDatabase.getInstance();
    b1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            db= fd.getReference("users");
            String s1=e1.getText().toString();
            String s2=e2.getText().toString();
            String s3=e3.getText().toString();
            if(s1.isEmpty())
            {
                e1.setError("Please fill your name");
                return;
            }
            else {
                if (s2.isEmpty()) {
                    e2.setError("Please fill your email");
                    return;
                } else if (s3.isEmpty()) {
                    e3.setError(("Please fill your password"));
                    return;
                } else {
                    Users users = new Users(s1, s2, s3);
                    db.child(s3).setValue(users);
                    Intent i=new Intent(Third.this, Fourth.class);
                    startActivity(i);
                    finish();
                    Toast.makeText(Third.this, "database updated",
                    Toast.LENGTH_SHORT).show();
                }
            }
        });
});
```

# Fourth.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    tools:context=".Fourth">

    <TextView
        android:id="@+id/textView6"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="7dp"
```

```
    android:layout_marginTop="23dp"
    android:text="Select the action you want to perform"
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="34sp" />
```

```
<Button
    android:id="@+id/button7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="0dp"
    android:layout_marginTop="207dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Calci"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button8"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="163dp"
    android:layout_marginTop="202dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="torch"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button9"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="207dp"
```

```
    android:layout_marginEnd="-2dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="wifi"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button10"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="0dp"
    android:layout_marginTop="145dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Camera"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button11"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="323dp"
    android:layout_marginEnd="-3dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Video"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button12"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="259dp"
    android:layout_marginEnd="0dp"
```

```
    android:backgroundTint="@android:color/holo_purple"
    android:text="Bluetooth"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button13"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="0dp"
    android:layout_marginBottom="297dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Media Player"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button14"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="0dp"
    android:layout_marginBottom="238dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Vibrate"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button15"
    android:layout_width="412dp"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="0dp"
    android:layout_marginBottom="176dp"
    android:backgroundTint="@android:color/holo_purple"
```

```
    android:text="Accelerometer"
    android:textColor="@color/white" />

<Button
    android:id="@+id/button16"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="0dp"
    android:layout_marginBottom="112dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Light Sensor"
    android:textColor="@color/white" />

<Button
    android:id="@+id/button17"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="0dp"
    android:layout_marginBottom="45dp"
    android:backgroundTint="@color/black"
    android:text="Logout"
    android:textColor="@color/white" />

</RelativeLayout>
```

#### ***Fourth.java:***

```
package com.example.myfinalproject;
```

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

```
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

import com.google.firebase.auth.FirebaseAuth;

public class Fourth extends AppCompatActivity {
    Button b1,b2,b3,b4,b5,b6,b7,b8,b9,b10,b11;
    FirebaseAuth fa;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_forth);
        b1=(Button) findViewById(R.id.button7);
        b2=(Button) findViewById(R.id.button8);
        b3=(Button) findViewById(R.id.button9);
        b4=(Button) findViewById(R.id.button10);
        b5=(Button) findViewById(R.id.button11);
        b6=(Button) findViewById(R.id.button12);
        b7=(Button) findViewById(R.id.button13);
        b8=(Button) findViewById(R.id.button14);
        b9=(Button) findViewById(R.id.button15);
        b10=(Button) findViewById(R.id.button16);
        b11=(Button) findViewById(R.id.button17);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i5= new Intent(Fourth.this, Fifth.class);
                startActivity(i5);
                finish();
            }
        });
    }
}
```

```
b2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i6= new Intent(Fourth.this, Sixth.class);
        startActivity(i6);
        finish();
    }
});
b3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i7= new Intent(Fourth.this, Thirteenth.class);
        startActivity(i7);
        finish();
    }
});
b4.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i8= new Intent(Fourth.this, Eight.class);
        startActivity(i8);
        finish();
    }
});
b5.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i9= new Intent(Fourth.this, Ninth.class);
        startActivity(i9);
        finish();
    }
});
b6.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i10= new Intent(Fourth.this, Seventh.class);
        startActivity(i10);
    }
});
```

```
        finish();
    }
});

b7.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i11= new Intent(Fourth.this, Twelfth.class);
        startActivity(i11);
        finish();

    }
});

b8.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i12= new Intent(Fourth.this, Tenth.class);
        startActivity(i12);
        finish();

    }
});

b9.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i13= new Intent(Fourth.this, Eleventh.class);
        startActivity(i13);
        finish();

    }
});

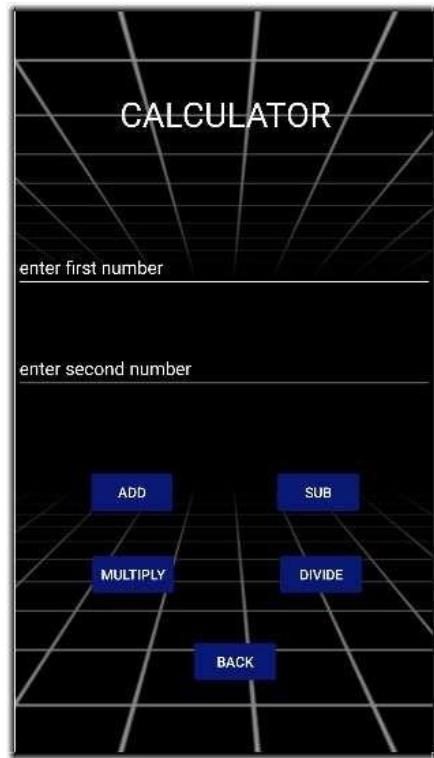
b10.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i14= new Intent(Fourth.this, Fourteenth.class);
        startActivity(i14);
        finish();

    }
});

b11.setOnClickListener(new View.OnClickListener() {
```

```
@Override
public void onClick(View v) {
    fa.signOut();
    Intent i15= new Intent(Fourth.this, MainActivity.class);
    startActivity(i15);
    finish();
}
});
```

# Fifth.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    tools:context=".Fifth" >

    <TextView
        android:id="@+id/textView7"
        android:layout_width="213dp"
        android:layout_height="91dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="103dp"
```

```
    android:layout_marginTop="78dp"
    android:text="CALCULATOR"
    android:textColor="@color/white"
    android:textSize="34sp" />
```

```
<EditText
    android:id="@+id/editTextText7"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="0dp"
    android:layout_marginTop="230dp"
    android:backgroundTint="@color/white"
    android:ems="10"
    android:inputType="text"
    android:text="enter first number"
    android:textColor="@color/white" />
```

```
<EditText
    android:id="@+id/editTextText8"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="330dp"
    android:layout_marginEnd="0dp"
    android:backgroundTint="@color/white"
    android:ems="10"
    android:inputType="text"
    android:text="enter second number"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
```

```
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="71dp"
    android:layout_marginBottom="233dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Add"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button18"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="69dp"
    android:layout_marginBottom="233dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Sub"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button19"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="72dp"
    android:layout_marginBottom="152dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Multiply"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button20"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
```

```
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="66dp"
        android:layout_marginBottom="152dp"
        android:backgroundTint="@android:color/holo_purple"
        android:text="Divide"
        android:textColor="@color/white" />

<Button
    android:id="@+id/button21"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="151dp"
    android:layout_marginBottom="66dp"
    android:backgroundTint="@color/black"
    android:text="Back"
    android:textColor="@color/white" />
</RelativeLayout>
```

### ***Fifth.java:***

```
package com.example.myfinalproject;

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

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
```

```
public class Fifth extends AppCompatActivity {
    EditText e2, e1;
    Button b1, b2, b3, b4,b5;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_fifth);
        e1 = (EditText) findViewById(R.id.editTextText7);
        e2 = (EditText) findViewById(R.id.editTextText8);
        b1 = (Button) findViewById(R.id.button2);
        b2 = (Button) findViewById(R.id.button18);
        b3 = (Button) findViewById(R.id.button19);
        b4 = (Button) findViewById(R.id.button20);
        b5=(Button) findViewById(R.id.button21);
        b5.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i10= new Intent(Fifth.this, Fourth.class);
                startActivity(i10);
                finish();
            }
        });
        b1.setOnClickListener((view) -> {
            String s1 = e1.getText().toString();
            String s2 = e2.getText().toString();
            Float j1 = Float.parseFloat(s1);
            Float j2 = Float.parseFloat(s2);
            Float j3 = j1 + j2;
            String s3 = Float.toString(j3);
            Toast.makeText(Fifth.this, "the result is " + j3,
            Toast.LENGTH_SHORT).show();
        });

        // Subtraction button
        b2.setOnClickListener((view) -> {
            String s1 = e1.getText().toString();
```

```

String s2 = e2.getText().toString();
Float j1 = Float.parseFloat(s1);
Float j2 = Float.parseFloat(s2);
Float j3 = j1 - j2;
String s3 = Float.toString(j3);
Toast.makeText(Fifth.this, "the result is " + j3,
Toast.LENGTH_SHORT).show();
});

// Multiplication button
b3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String s1 = e1.getText().toString();
        String s2 = e2.getText().toString();
        Float j1 = Float.parseFloat(s1);
        Float j2 = Float.parseFloat(s2);
        Float j3 = j1 * j2;
        String s3 = Float.toString(j3);
        Toast.makeText(Fifth.this, "the result is " + j3,
        Toast.LENGTH_SHORT).show();
    }
});

// Division button
b4.setOnClickListener((view) -> {
    String s1 = e1.getText().toString();
    String s2 = e2.getText().toString();
    Float j1 = Float.parseFloat(s1);
    Float j2 = Float.parseFloat(s2);
    Float j3 = j1 / j2;
    String s3 = Float.toString(j3);
    Toast.makeText(Fifth.this, "the result is" + j3,
    Toast.LENGTH_SHORT).show();
});
}
}

```

# Sixth.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    tools:context=".Sixth">

    <Button
        android:id="@+id/button"
        android:layout_width="158dp"
        android:layout_height="58dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="123dp"
```

```
    android:layout_marginTop="269dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Torch ON"
    android:textColor="@color/white"
    android:textSize="16sp"
    tools:layout_editor_absoluteX="224dp"
    tools:layout_editor_absoluteY="292dp" />
```

```
<Button
    android:id="@+id/button22"
    android:layout_width="116dp"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="152dp"
    android:layout_marginBottom="315dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Torch OFF"
    android:textColor="@color/white"
    android:textSize="16sp" />
```

```
<Button
    android:id="@+id/button23"
    android:layout_width="172dp"
    android:layout_height="62dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="117dp"
    android:layout_marginBottom="134dp"
    android:backgroundTint="@color/black"
    android:text="Back"
    android:textColor="@color/white"
    android:textSize="16sp" />
```

```
<TextView
    android:id="@+id/textView9"
    android:layout_width="237dp"
```

```
        android:layout_height="137dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="82dp"
        android:layout_marginTop="63dp"
        android:text="Torch"
        android:textAlignment="center"
        android:textColor="@color/white"
        android:textSize="34sp" />
</RelativeLayout>
```

### ***Sixth.java:***

```
package com.example.myfinalproject;

import android.content.Intent;
import android.hardware.camera2.CameraAccessException;
import android.hardware.camera2.CameraManager;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class Sixth extends AppCompatActivity {
    Button b1,b2,b3;
    CameraManager cm;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_sixth);
```

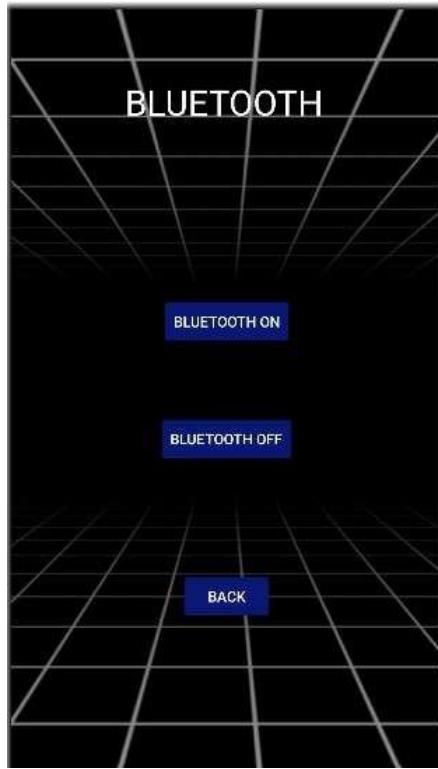
```
b1=(Button) findViewById(R.id.button);
b2=(Button) findViewById(R.id.button22);
b3=(Button) findViewById(R.id.button23);
cm=(CameraManager) getSystemService(CAMERA_SERVICE);
b3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i11= new Intent(Sixth.this, Fourth.class);
        startActivity(i11);
        finish();
    }
});
b1.setOnClickListener(v -> {
    try {
        String s1=cm.getCameraIdList()[0];
        cm.setTorchMode(s1,true);
    }
    catch (CameraAccessException e)
    {
        }

    });
b2.setOnClickListener(v -> {
    try {
        String s2=cm.getCameraIdList()[0];
        cm.setTorchMode(s2,false);
    }
    catch (CameraAccessException e)
    {
        }

    });
}

}
```

# Seventh.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    tools:context=".Seventh">

    <TextView
        android:id="@+id/textView5"
        android:layout_width="197dp"
        android:layout_height="122dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="106dp"
```

```
        android:layout_marginTop="66dp"
        android:text="BLUETOOTH"
        android:textAlignment="center"
        android:textColor="@color/white"
        android:textSize="34sp" />

<Button
    android:id="@+id/button24"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="275dp"
    android:layout_marginEnd="141dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Bluetooth ON"
    android:textColor="@color/white" />

<Button
    android:id="@+id/button25"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="139dp"
    android:layout_marginBottom="296dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Bluetooth OFF"
    android:textColor="@color/white" />

<Button
    android:id="@+id/button26"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="163dp"
```

```
    android:layout_marginBottom="145dp"
    android:backgroundTint="@color/black"
    android:text="Back"
    android:textColor="@color/white" />
</RelativeLayout>
```

***Seventh.java:***

```
package com.example.myfinalproject;

import android.Manifest;
import android.bluetooth.BluetoothAdapter;
import android.content.pm.PackageManager;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;

import androidx.activity.EdgeToEdge;
import androidx.annotation.RequiresPermission;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class Seventh extends AppCompatActivity {
    Button b1,b2,b3;
    BluetoothAdapter ba;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_seventh);
        b1=(Button) findViewById(R.id.button24);
```

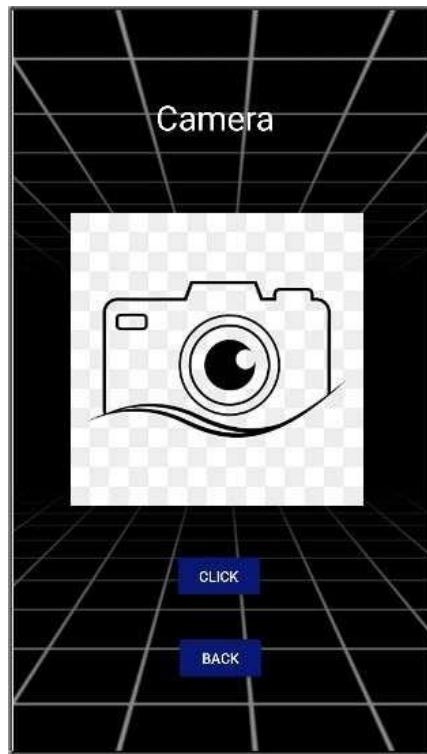
```

b2=(Button) findViewById(R.id.button25);
b3=(Button) findViewById(R.id.button26);
ba = BluetoothAdapter.getDefaultAdapter();

if (ba == null) {
    Toast.makeText(this, "Bluetooth not supported",
    Toast.LENGTH_SHORT).show();
    return;
}
b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if (PackageManager.PERMISSION_GRANTED != ActivityCompat.checkSelfPermission(Seventh.this,
        Manifest.permission.BLUETOOTH_CONNECT)) {
            // TODO: Consider calling
            // ActivityCompat#requestPermissions
            // here to request the missing permissions, and then overriding
            // public void onRequestPermissionsResult(int requestCode,
            String[] permissions,
            // int[] grantResults)
            // to handle the case where the user grants the permission. See the
            documentation
            // for ActivityCompat#requestPermissions for more details.
            return;
        }
        ba.enable();
    }
});
b2.setOnClickListener(new View.OnClickListener() {
    @RequiresPermission(Manifest.permission.BLUETOOTH_CONNECT)
    @Override
    public void onClick(View v) {
        ba.disable();
    }
});
}
}

```

# Eight.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    tools:context=".Eight" >

    <TextView
        android:id="@+id/textView4"
        android:layout_width="272dp"
        android:layout_height="112dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
```

```
    android:layout_marginStart="63dp"
    android:layout_marginTop="83dp"
    android:text="Camera"
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="34sp" />
```

```
<Button
    android:id="@+id/button27"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="159dp"
    android:layout_marginBottom="149dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Click"
    android:textColor="@color/white" />
```

```
<ImageView
    android:id="@+id/imageView"
    android:layout_width="370dp"
    android:layout_height="289dp"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="200dp"
    android:layout_marginEnd="26dp"
    app:srcCompat="@drawable/camera" />
```

```
<Button
    android:id="@+id/button28"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="163dp"
    android:layout_marginBottom="68dp"
```

```
        android:backgroundTint="@color/black"
        android:text="Back"
        android:textColor="@color/white" />
    </RelativeLayout>
```

***Eight.java:***

```
package com.example.myfinalproject;

import android.content.Intent;
import android.graphics.Bitmap;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.Toast;

import androidx.activity.EdgeToEdge;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

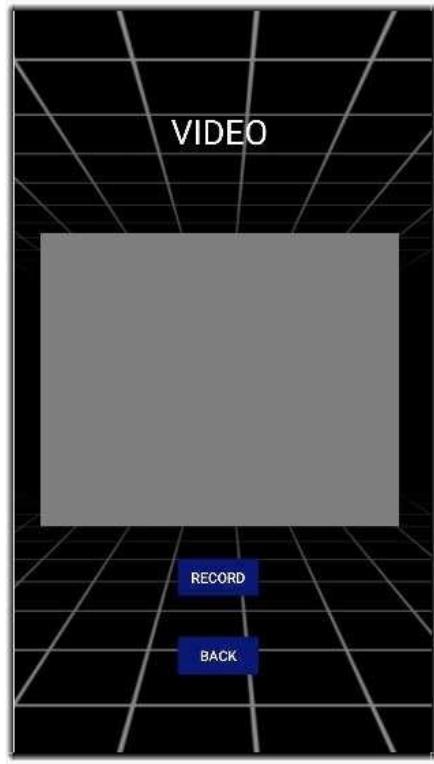
public class Eight extends AppCompatActivity {
    Button b1,b2;
    ImageView iv;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_eight);
        b1=(Button)findViewById(R.id.button27);
        b2=(Button) findViewById(R.id.button28);
```

```
iv=(ImageView) findViewById(R.id.imageView);
b2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i10= new Intent(Eight.this, Fourth.class);
        startActivity(i10);
        finish();
    }
});
b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i= new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
        startActivityForResult(i,99);
    }
});
}

@Override
protected void onActivityResult(int requestCode, int resultCode, @Nullable
Intent data) {
    super.onActivityResult(requestCode, resultCode, data);
    if(requestCode==99)
    {
        Bitmap bmp=(Bitmap) data.getExtras().get("data");
        iv.setImageBitmap(bmp);
    }
    else
    {
        Toast.makeText(this, "Sorry, Your phone doesn't support this",
        Toast.LENGTH_SHORT).show();
    }
}
```

# Ninth.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    tools:context=".Ninth" >

    <TextView
        android:id="@+id/textView3"
        android:layout_width="198dp"
        android:layout_height="67dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="103dp"
```

```
    android:layout_marginTop="96dp"
    android:text="VIDEO"
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="34sp" />
```

```
<VideoView
    android:id="@+id/videoView"
    android:layout_width="353dp"
    android:layout_height="289dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="26dp"
    android:layout_marginTop="219dp" />
```

```
<Button
    android:id="@+id/button29"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="157dp"
    android:layout_marginBottom="149dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Record"
    android:textColor="@color/white" />
```

```
<Button
    android:id="@+id/button30"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="157dp"
    android:layout_marginBottom="72dp"
    android:backgroundTint="@color/black"
    android:text="Back"
```

```
        android:textColor="@color/white" />
</RelativeLayout>
```

**Ninth.java:**

```
package com.example.myfinalproject;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.View;
import android.widget.Button;
import android.widget.MediaController;
import android.widget.Toast;
import android.widget.VideoView;

import androidx.activity.EdgeToEdge;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class Ninth extends AppCompatActivity {
    Button b1,b2;
    VideoView v;
    Uri u1;
    MediaController m1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_ninth);
        b1=(Button) findViewById(R.id.button29);
        b2=(Button) findViewById(R.id.button30);
```

```
v=(VideoView) findViewById(R.id.videoView);
m1=new MediaController(this);
b2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i10= new Intent(Ninth.this, Fourth.class);
        startActivity(i10);
        finish();
    }
});
b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i= new Intent(MediaStore.ACTION_VIDEO_CAPTURE);
        startActivityForResult(i,99);
    }
});
}

@Override
protected void onActivityResult(int requestCode, int resultCode, @Nullable
Intent data) {
    super.onActivityResult(requestCode, resultCode, data);
    if(requestCode==99)
    {
        u1=data.getData();
        v.setVideoURI(u1);
        v.setMediaController(m1);
        m1.setAnchorView(v);
        v.start();
    }
    else {
        Toast.makeText(this, "Your phone doesn't support this",
        Toast.LENGTH_SHORT).show();
    }
}
```

# Tenth.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    tools:context=".Tenth">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="216dp"
        android:layout_height="117dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        ...>
```

```
    android:layout_marginStart="101dp"
    android:layout_marginTop="74dp"
    android:text="VIBRATION"
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="34sp"
    tools:layout_editor_absoluteX="272dp"
    tools:layout_editor_absoluteY="277dp" />
```

```
<Button
    android:id="@+id/button31"
    android:layout_width="235dp"
    android:layout_height="117dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="94dp"
    android:layout_marginTop="290dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Vibrate "
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="24sp" />
```

```
<Button
    android:id="@+id/button33"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="160dp"
    android:layout_marginBottom="159dp"
    android:backgroundTint="@color/black"
    android:text="Back"
    android:textColor="@color/white" />
</RelativeLayout>
```

**Tenth.java:**

```
package com.example.myfinalproject;

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

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class Tenth extends AppCompatActivity {
    Button b1,b2;
    Vibrator v1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_tenth);
        b1 = findViewById(R.id.button31);
        b2 = findViewById(R.id.button33);
        v1 = (Vibrator) getSystemService(VIBRATOR_SERVICE);
        b1.setOnClickListener(v -> {
            if (Build.VERSION.SDK_INT>24)
                v1.vibrate(5000);
            else
                v1.vibrate(5000);

        });
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
```

```
public void onClick(View v) {  
    Intent i10= new Intent(Tenth.this, Fourth.class);  
    startActivity(i10);  
    finish();  
}  
});  
  
}  
}
```

# Eleventh.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    tools:context=".Eleventh" >

    <TextView
        android:id="@+id/textView"
        android:layout_width="299dp"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="59dp"
```

```
    android:layout_marginTop="86dp"
    android:text="ACCELEROMETER"
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="34sp" />

<ImageView
    android:id="@+id/imageView2"
    android:layout_width="308dp"
    android:layout_height="216dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="49dp"
    android:layout_marginTop="195dp"
    app:srcCompat="@drawable/tilta" />

<Button
    android:id="@+id/button34"
    android:layout_width="126dp"
    android:layout_height="68dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="141dp"
    android:layout_marginBottom="152dp"
    android:backgroundTint="@color/black"
    android:text="Back"
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="20sp" />
</RelativeLayout>
```

### ***Eleventh.java:***

```
package com.example.myfinalproject;

import android.hardware.Sensor;
import android.hardware.SensorEvent;
```

```
import android.hardware.SensorEventListener;
import android.hardware.SensorManager;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.widget.Button;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class Eleventh extends AppCompatActivity implements
SensorEventListener {

    Button b1;
    Sensor s;
    SensorManager sm;
    MediaPlayer mp;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_eleventh);
        b1=(Button) findViewById(R.id.button34);
        mp=MediaPlayer.create(this, R.raw.y);
        sm=(SensorManager) getSystemService(SENSOR_SERVICE);
        s=sm.getDefaultSensor(Sensor.TYPE_ACCELEROMETER);
        sm.registerListener(this,s,SensorManagerSENSOR_DELAY_NORMAL);

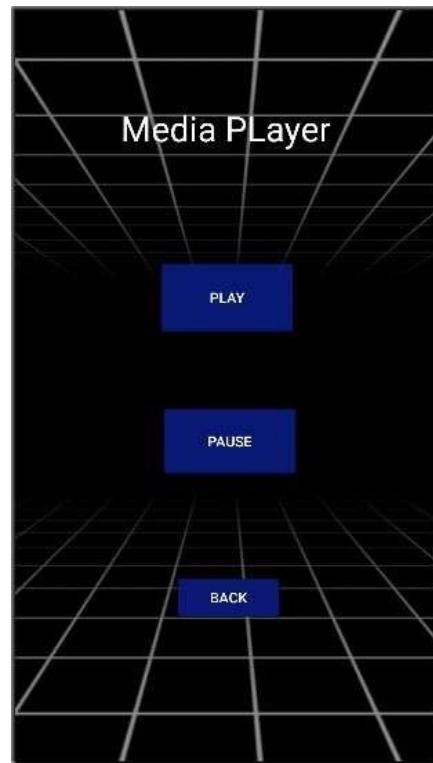
    }

    @Override
    public void onAccuracyChanged(Sensor sensor, int accuracy) {

    }
}
```

```
@Override
public void onSensorChanged(SensorEvent event) {
    float x= event.values[0];
    float y= event.values[1];
    float z= event.values[2];
    int x1=(int)x;
    int x2=(int)y;
    int x3=(int)z;
    if(x1!=0)
    {
        mp.start();
    }
    else {
        mp.pause();
    }
}
```

# Twelfth.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    tools:context=".Twelfth" >

    <TextView
        android:id="@+id/textView11"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="103dp"
        ...>
```

```
    android:layout_marginTop="92dp"
    android:text="Media PLayer"
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="34sp" />

<Button
    android:id="@+id/button35"
    android:layout_width="135dp"
    android:layout_height="77dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="139dp"
    android:layout_marginTop="241dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Play"
    android:textColor="@color/white" />

<Button
    android:id="@+id/button36"
    android:layout_width="136dp"
    android:layout_height="74dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="141dp"
    android:layout_marginBottom="275dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="Pause"
    android:textColor="@color/white" />

<Button
    android:id="@+id/button37"
    android:layout_width="106dp"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="151dp"
```

```
    android:layout_marginBottom="136dp"
    android:backgroundTint="@color/black"
    android:text="Back"
    android:textColor="@color/white" />
</RelativeLayout>
```

### ***Twelfth.java:***

```
package com.example.myfinalproject;

import android.media.MediaPlayer;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

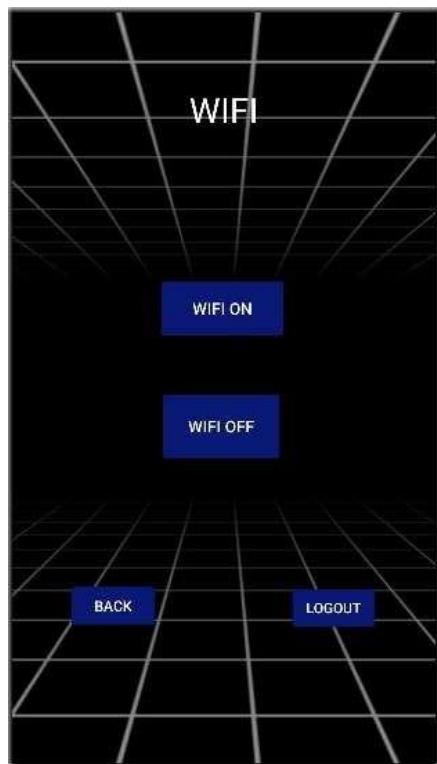
public class Twelfth extends AppCompatActivity {
    MediaPlayer mediaPlayer;
    Button Play, Pause, Back;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_twelfth);
        Play = findViewById(R.id.button35);
        Pause = findViewById(R.id.button36);
        Back = findViewById(R.id.button37);
```

```
mediaPlayer = MediaPlayer.create(this, R.raw.y);

Play.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if (!mediaPlayer.isPlaying()) {
            mediaPlayer.start();
        }
    }
});
```

# Thirteenth.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    tools:context=".Thirteenth">

    <TextView
        android:id="@+id/textView10"
        android:layout_width="match_parent"
        android:layout_height="70dp"
        android:layout_alignParentStart="true"
```

```
    android:layout_alignParentTop="true"
    android:layout_marginStart="0dp"
    android:layout_marginTop="72dp"
    android:text="WIFI"
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="34sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    tools:layout_editor_absoluteY="132dp" />
```

```
<Button
    android:id="@+id/button38"
    android:layout_width="126dp"
    android:layout_height="64dp"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="256dp"
    android:layout_marginEnd="144dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="WIFI ON"
    android:textColor="@color/white"
    android:textSize="16sp" />
```

```
<Button
    android:id="@+id/button39"
    android:layout_width="120dp"
    android:layout_height="73dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="148dp"
    android:layout_marginBottom="292dp"
    android:backgroundTint="@android:color/holo_purple"
    android:text="WIFI OFF"
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="16sp" />
```

```
<Button
    android:id="@+id/button40"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="54dp"
    android:layout_marginBottom="130dp"
    android:backgroundTint="@color/black"
    android:text="Back"
    android:textColor="@color/white" />

<Button
    android:id="@+id/button41"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="55dp"
    android:layout_marginBottom="128dp"
    android:backgroundTint="@color/black"
    android:text="Logout"
    android:textColor="@color/white" />
</RelativeLayout>
```

### ***Thirteenth.java:***

```
package com.example.myfinalproject;

import android.content.Intent;
import android.net.wifi.WifiManager;
import android.os.Build;
import android.os.Bundle;
import android.provider.Settings;
import android.view.View;
import android.widget.Button;
```

```
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

import com.google.firebase.auth.FirebaseAuth;

public class Thirteenth extends AppCompatActivity {
    Button b1,b2,b3,b4;
    WifiManager wm;
    FirebaseAuth fa;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_thirteenth);
        b1=(Button) findViewById(R.id.button38);
        b2=(Button) findViewById(R.id.button39);
        b3=(Button) findViewById(R.id.button40);
        b4=(Button) findViewById(R.id.button41);
        wm = (WifiManager) getSystemService(WIFI_SERVICE);
        b4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

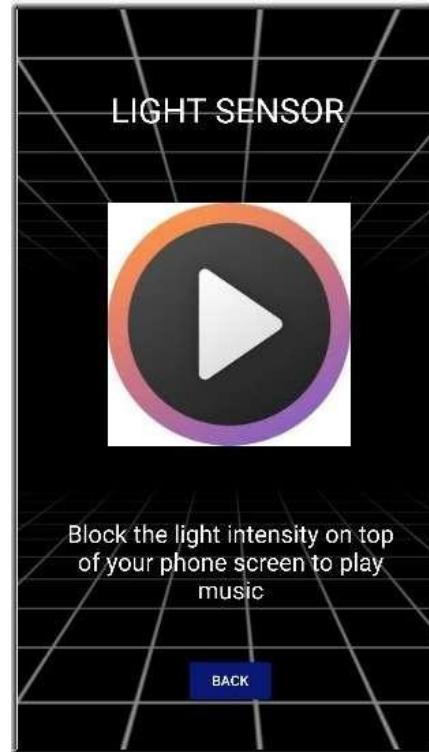
                Intent i4= new Intent(Thirteenth.this, MainActivity.class);
                startActivity(i4);
                finish();
                fa.signOut();
            }
        });
        b3.setOnClickListener(new View.OnClickListener() {
```

```
    @Override
    public void onClick(View v) {
        Intent i5= new Intent(Thirteenth.this, Fourth.class);
        startActivity(i5);
        finish();
    }
});

b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.Q) {
            Intent panelIntent = new Intent(Settings.Panel.ACTION_WIFI);
            startActivityForResult(panelIntent, 0);
        } else {
            wm.setWifiEnabled(true);
        }
    }
});

b2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        wm.setWifiEnabled(false);
    }
});
}
```

# Fourteenth.java and XML



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img"
    tools:context=".Fourteenth">

    <TextView
        android:id="@+id/textView12"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
```

```
    android:layout_alignParentEnd="true"
    android:layout_marginTop="76dp"
    android:layout_marginEnd="-2dp"
    android:text="LIGHT SENSOR"
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="34sp"
    tools:layout_editor_absoluteX="159dp"
    tools:layout_editor_absoluteY="71dp" />
```

```
<TextView
    android:id="@+id/textView13"
    android:layout_width="349dp"
    android:layout_height="109dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="35dp"
    android:layout_marginTop="501dp"
    android:text="Block the light intensity on top of your phone screen to play
music"
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="24sp" />
```

```
<Button
    android:id="@+id/button42"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="158dp"
    android:layout_marginBottom="45dp"
    android:backgroundTint="@color/black"
    android:text="Back"
    android:textColor="@color/white" />
```

```
<ImageView
```

```
    android:id="@+id/imageView3"
    android:layout_width="240dp"
    android:layout_height="336dp"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="143dp"
    android:layout_marginEnd="83dp"
    app:srcCompat="@drawable/media" />
</RelativeLayout>
```

### ***Fourteenth.java:***

```
package com.example.myfinalproject;

import android.annotation.SuppressLint;
import android.hardware.Sensor;
import android.hardware.SensorEvent;
import android.hardware.SensorEventListener;
import android.hardware.SensorManager;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.provider.ContactsContract;
import android.webkit.WebView;
import android.widget.Button;
import android.widget.ImageView;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class Fourteenth extends AppCompatActivity implements
SensorEventListener{
    ImageView iv;
    MediaPlayer mp;
    Button b1;
```

```
Sensor s;
SensorManager sm;

@SuppressLint("MissingInflatedId")
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    EdgeToEdge.enable(this);
    setContentView(R.layout.activity_fourteenth);
    iv=(ImageView) findViewById(R.id.imageView3);
    mp=MediaPlayer.create(this, R.raw.y);
    sm=(SensorManager) getSystemService(SENSOR_SERVICE);
    s=sm.getDefaultSensor(Sensor.TYPE_LIGHT);
    sm.registerListener(this,s,SensorManager.SENSOR_DELAY_NORMAL);
    b1=(Button) findViewById(R.id.button42);
}

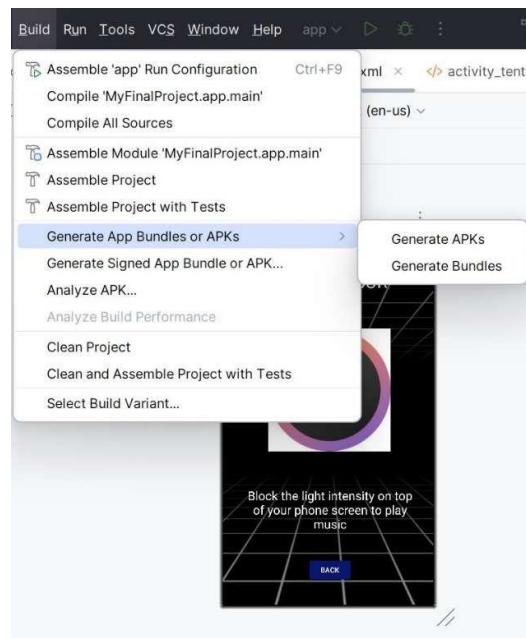
@Override
public void onAccuracyChanged(Sensor sensor, int accuracy) {

}

@Override
public void onSensorChanged(SensorEvent event) {
    if (event.values[0]>1)
    {
        mp.start();
        iv.setImageResource(R.drawable.media);
    }
    else {
        mp.pause();
    }
}
}
```

# Build the app and Generate the APK

1. Go to main menu → Build → Generate APK Bundles and APKs → Generate APKs



2. Click on locate to view the apk on the device.

# Realtime Database and Authentication User Logins Shown in Firebase

The screenshot displays the Firebase console interface, divided into two main sections: Authentication and Realtime Database.

**Authentication Section:**

- Left Sidebar:** Shows Project Overview, Authentication (selected), Product categories, Build, Run, Analytics, and Related development tools (including AI Logic).
- Header:** Shows "java" under the dropdown and tabs for Users, Sign-in method, Templates, Usage, Settings, and Extensions.
- Content:** A warning message states: "The following authentication features will stop working when Firebase Dynamic Links shuts down on 25 August 2025: email link authentication for mobile apps, as well as Cordova OAuth support for web apps." Below this is a table listing a user entry:

Identifier	Providers	Created	Signed In	User UID
naina@gmail.com	✉	12 Aug 2025	12 Aug 2025	BMJYZkZZdUR6y0jd7QDCe4...

**Realtime Database Section:**

- Left Sidebar:** Shows AI Logic (NEW), Product categories, Build, Run, Analytics, AI, and All products.
- Header:** Shows "Realtime Database" and tabs for Data, Rules, Backups, Usage, and Extensions.
- Content:** A protection message: "Protect your Realtime Database resources from abuse, such as billing fraud or Denial of Service (DoS) attacks." Below this is a tree view of database paths:
  - https://myfinalnetcampproject-7daef-default-rtdb.firebaseio.com
  - Users: "users"
  - users
  - 123456
    - email: "naina@gmail.com"
    - name: "naina"
    - password: "123456"

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