NETCAMP®

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PROJECT REPORT ON

Under Supervision-

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ANDROID

SUBMITTED BY

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Acknowledgement

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 Pvt. Ltd. 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 toward Mr. Santu Purkait, Director: Netcamp Solutions Pvt. Ltd. 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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College ID: 191500676

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Date: 30 June 2021 to 31 August 2021

Signature: *Rohit*

Netcamp Solutions Private Limited

Certificate

This is to certify that, **Rohit Singhal**, *a student of program,* **Android with Java Program** *has successfully completed a project on Network Management under the guidance of* **Mr. Santu Purkait** *during the Dates: 30 June- 31 August,2021 by* **Netcamp Solutions Private Limited**.

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activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <Button
        android:id="@+id/button2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/imageView3"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentEnd="true"
        android:layout_marginTop="10dp"
        android:layout_marginEnd="0dp"

android:background="@color/design_default_color_error"
        android:text="Gmail Login"

android:textColor="@android:color/holo_green_light"
        android:textIsSelectable="false"
        android:textSize="18sp"
        android:textStyle="normal|bold" />

    <Button
        android:id="@+id/button3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/button2"
        android:layout_alignParentStart="true"
        android:layout_alignParentEnd="true"
        android:layout_marginTop="60dp"
        android:background="@android:color/holo_orange_light"
        android:text="Normal Login"
        android:textColor="?android:attr/colorEdgeEffect"
        android:textSize="18sp"
        android:textStyle="normal|bold" />
```
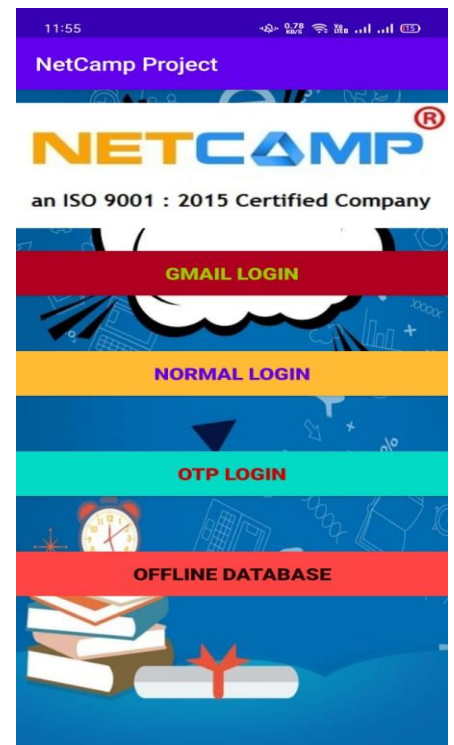
```xml
<Button
    android:id="@+id/button4"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@+id/button3"
    android:layout_alignParentStart="true"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="60dp"
    android:background="@color/design_default_color_secondary"
    android:text="OTP Login"
    android:textColor="@android:color/holo_red_dark"
    android:textSize="18sp"
    android:textStyle="normal|bold" />

<Button
    android:id="@+id/button5"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@+id/button4"
    android:layout_alignParentStart="true"
    android:layout_marginTop="60dp"
    android:background="@android:color/holo_red_light"
    android:text="Offline Database"
    android:textSize="18sp"
    android:textStyle="normal|bold" />

<ImageView
    android:id="@+id/imageView3"
    android:layout_width="match_parent"
    android:layout_height="164dp"
    android:layout_alignParentStart="false"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    app:srcCompat="@drawable/x" />
</RelativeLayout>
</ScrollView>
```

MainAcitvity.java

```java
package com.example.netcampproject;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    Button b2,b3,b4,b5;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        getWindow().setBackgroundDrawableResource(R.drawable.fo);
        b2=(Button)findViewById(R.id.button2);
        b3=(Button)findViewById(R.id.button3);
        b4=(Button)findViewById(R.id.button4);
        b5=(Button)findViewById(R.id.button5);
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent j = new Intent(MainActivity.this,GmailLogin.class);
                startActivity(j);
                finish();
            }
        });
        b3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent k= new Intent(MainActivity.this,NormalLogin.class);
                startActivity(k);
                finish();
            }
        });
        b4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent l=new Intent(MainActivity.this,OtpLogin.class);
                startActivity(l);
                finish();
            }
        });
        b5.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent m=new Intent(MainActivity.this,LoginOffline.class);
                startActivity(m);
                finish();
            }
        });
    }
}
```

- ❖ After Click On Gmail Login
- ❖ Sign Up with Using Gmail ID

activity_gmail_login.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".GmailLogin">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="42dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentRight="true"
        android:layout_marginTop="88dp"

android:background="@android:color/holo_orange_dark"
        android:text="Click Here to Sign In with
Google"
        android:textColor="@color/purple_700"
        android:textSize="20sp" />

    <ImageView
        android:id="@+id/imageView4"
        android:layout_width="match_parent"
        android:layout_height="80dp"
        android:layout_below="@+id/textView"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_marginTop="17dp"
        android:adjustViewBounds="true"
        app:srcCompat="@drawable/ic_baseline_arrow_downward_24"
        tools:ignore="VectorDrawableCompat" />

    <ImageButton
        android:id="@+id/imageButtonG"
        android:layout_width="wrap_content"
        android:layout_height="226dp"
        android:layout_below="@+id/imageView4"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_centerInParent="true"
```
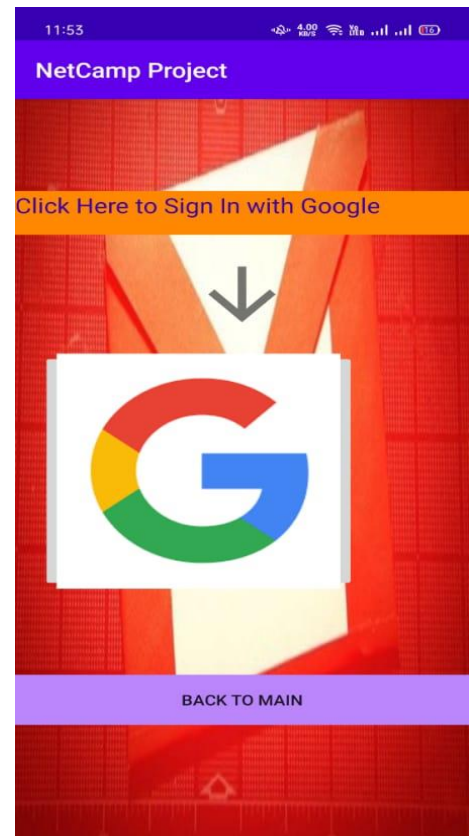
```xml
            android:layout_marginTop="16dp"
            android:layout_marginEnd="90dp"
            android:layout_marginRight="90dp"
            app:srcCompat="@drawable/g" />

    <Button
        android:id="@+id/buttonGmail"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/imageButtonG"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="82dp"
        android:background="@color/purple_200"
        android:text="Back To main" />

    </RelativeLayout>

</ScrollView>
```

GmailLogin.java

```java
package com.example.netcampproject;

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

import androidx.appcompat.app.AppCompatActivity;

import com.google.android.gms.auth.api.signin.GoogleSignIn;
import com.google.android.gms.auth.api.signin.GoogleSignInAccount;
import com.google.android.gms.auth.api.signin.GoogleSignInClient;
import com.google.android.gms.auth.api.signin.GoogleSignInOptions;
import com.google.android.gms.common.api.ApiException;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.AuthCredential;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
import com.google.firebase.auth.GoogleAuthProvider;

public class GmailLogin extends AppCompatActivity {
    ImageButton b1;
    Button i1;
    GoogleSignInClient googleSignInClient;
    FirebaseAuth firebaseAuth;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_gmail_login);
        getWindow().setBackgroundDrawableResource(R.drawable.gm);
        i1=(Button)findViewById(R.id.buttonGmail);
        b1 = (ImageButton)findViewById(R.id.imageButtonG);
        i1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i=new Intent(GmailLogin.this,MainActivity.class);
                startActivity(i);
                finish();
            }
        });
        GoogleSignInOptions googleSignInOptions = new
GoogleSignInOptions.Builder(GoogleSignInOptions.DEFAULT_SIGN_IN).requestIdToken("37119
9397543-
mc8k4en2h6hogml39869uhqfumqkc2jk.apps.googleusercontent.com").requestEmail().build();
        googleSignInClient = GoogleSignIn.getClient(GmailLogin.this,
googleSignInOptions);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent i = googleSignInClient.getSignInIntent();
                startActivityForResult(i, 100);
```

```java
                }
        });
        firebaseAuth = FirebaseAuth.getInstance();
        FirebaseUser firebaseUser = firebaseAuth.getCurrentUser();
        if (firebaseUser != null) {
            Intent j = new Intent(GmailLogin.this,
Menu.class).setFlags(Intent.FLAG_ACTIVITY_NEW_TASK);
            startActivity(j);
            finish();
        }
    }

    @Override
    protected void onActivityResult(int requestCode, int resultCode,Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        if(requestCode == 100)
        {

Task<GoogleSignInAccount>signInAccountTask=GoogleSignIn.getSignedInAccountFromIntent(d
ata);
            if(signInAccountTask.isSuccessful())
            {
                Toast.makeText(this,"SignIn Successfully",Toast.LENGTH_SHORT).show();

                try {
                    GoogleSignInAccount googleSignInAccount =
signInAccountTask.getResult(ApiException.class);
                    if (googleSignInAccount != null) {
                        AuthCredential authCredential =
GoogleAuthProvider.getCredential(googleSignInAccount.getIdToken(), null);

firebaseAuth.signInWithCredential(authCredential).addOnCompleteListener(new
OnCompleteListener<AuthResult>() {
                            @Override
                            public void onComplete(Task<AuthResult> task) {
                                if (signInAccountTask.isSuccessful()) {
                                    Toast.makeText(GmailLogin.this, "Data Updated",
Toast.LENGTH_SHORT).show();
                                    Intent j = new Intent(GmailLogin.this,
Menu.class).setFlags(Intent.FLAG_ACTIVITY_NEW_TASK);
                                    startActivity(j);
                                }
                            }
                        });
                    }
                }catch (ApiException e)
                {
                    e.printStackTrace();
                }
            }
        }
    }
}
```

- ❖ After Click On Normal Login
- ❖ Login Page With Normal Email ID

activity_normal_login.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".NormalLogin">
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent">

    <EditText
        android:id="@+id/editTextN"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_marginTop="133dp"

android:background="@android:color/holo_orange_dark"
        android:ems="10"
        android:hint="Enter Your Email ID"
        android:inputType="textPersonName"
        android:textSize="20sp" />

    <EditText
        android:id="@+id/editTextN2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editTextN"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_marginStart="0dp"
        android:layout_marginLeft="0dp"
        android:layout_marginTop="16dp"

android:background="@android:color/holo_orange_dark"
        android:ems="10"
        android:hint="Enter Your Password"
        android:inputType="textPassword"
        android:textSize="20sp" />

    <Button
        android:id="@+id/buttonN"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editTextN2"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="45dp"
        android:background="@color/design_default_color_secondary"
        android:text="Login" />

    <Button
```
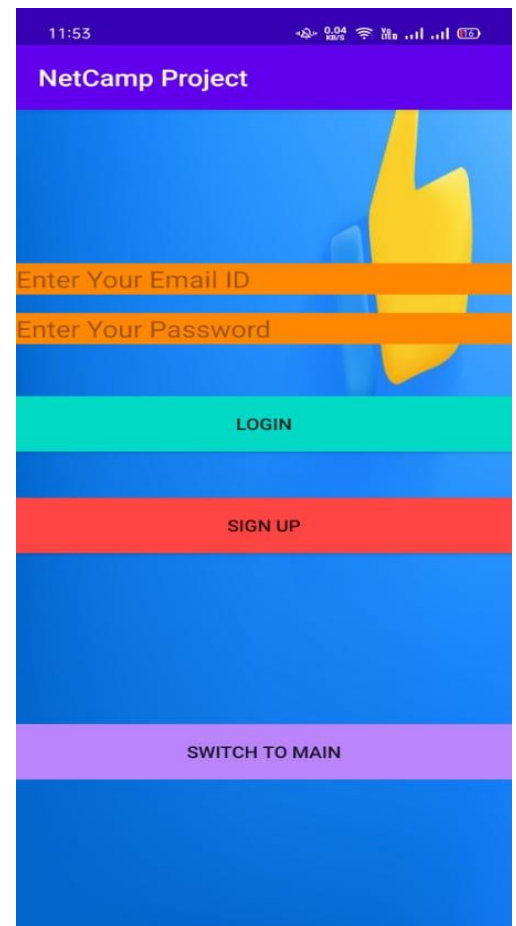
```xml
        android:id="@+id/buttonN2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonN"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_marginTop="40dp"
        android:background="@android:color/holo_red_light"
        android:text="Sign Up" />

    <ProgressBar
        android:id="@+id/progressBarN"
        style="?android:attr/progressBarStyle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonN2"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="40dp"
        android:visibility="invisible" />

    <Button
        android:id="@+id/buttonN5"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/progressBarN"
        android:layout_alignParentStart="true"
        android:layout_marginTop="60dp"
        android:background="@color/purple_200"
        android:text="Switch to Main" />
    </RelativeLayout>
</ScrollView>
```

NormalLogin.java

```java
package com.example.netcampproject;

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

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

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;

import org.jetbrains.annotations.NotNull;

public class NormalLogin extends AppCompatActivity {

    Button b1, b2,b3;
    EditText e1, e2;
    ProgressBar p1;
    FirebaseAuth firebaseAuth;
    String s1, s2;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_normal_login);
        getWindow().setBackgroundDrawableResource(R.drawable.si);
        b1 = (Button) findViewById(R.id.buttonN);
        b2 = (Button) findViewById(R.id.buttonN2);
        b3=(Button)findViewById(R.id.buttonN5);
        e1 = (EditText) findViewById(R.id.editTextN);
        e2 = (EditText) findViewById(R.id.editTextN2);
        p1 = (ProgressBar) findViewById(R.id.progressBarN);
        firebaseAuth = FirebaseAuth.getInstance();
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i = new Intent(NormalLogin.this, Normal.class);
                startActivity(i);
                finish();
            }
        });
        b3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i=new Intent(NormalLogin.this,MainActivity.class);
                startActivity(i);
                finish();
            }
        });
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
```

```java
            public void onClick(View v) {
                s1 = e1.getText().toString();
                s2 = e2.getText().toString();
                if (s1.isEmpty()) {
                    e1.setError("Please Fill Email Id");
                    return;
                } else {
                    if (s2.isEmpty()) {
                        e2.setError("Please Fill Password");
                        return;
                    }
                }
                p1.setVisibility(View.VISIBLE);
                firebaseAuth.signInWithEmailAndPassword(s1,
s2).addOnCompleteListener(new OnCompleteListener<AuthResult>() {
                    @Override
                    public void onComplete(@NonNull @NotNull Task<AuthResult> task) {
                        if (task.isSuccessful()) {
                            Toast.makeText(NormalLogin.this, "Login Successfully",
Toast.LENGTH_SHORT).show();
                            Intent j = new Intent(NormalLogin.this, Menu.class);
                            startActivity(j);
                            finish();
                            p1.setVisibility(View.INVISIBLE);

                        } else {
                            Toast.makeText(NormalLogin.this, "Invalid Email ID or
Password", Toast.LENGTH_SHORT).show();
                            Intent k = new Intent(NormalLogin.this, Normal.class);
                            startActivity(k);
                            finish();
                            p1.setVisibility(View.INVISIBLE);
                        }
                    }
                });
            }
        });
    }
}
```

❖ After Click On Sign Up button

acitivity_normal.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".Normal">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <EditText
        android:id="@+id/editTextN3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/imageView2"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_marginTop="40dp"

android:background="@android:color/holo_blue_bright"
        android:ems="10"
        android:hint="Enter Your Email ID"
        android:inputType="textPersonName"
        android:textSize="20sp" />

    <EditText
        android:id="@+id/editTextN4"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editTextN3"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_marginTop="10dp"

android:background="@android:color/holo_blue_bright"
        android:ems="10"
        android:hint="Enter Your Password"
        android:inputType="textPassword"
        android:textSize="20sp" />

    <Button
        android:id="@+id/buttonN3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editTextN4"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="40dp"
        android:background="@android:color/holo_red_light"
        android:text="Sign Up" />

    <Button
        android:id="@+id/buttonN4"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/progressBarN2"
        android:layout_alignParentStart="true"
        android:layout_alignParentEnd="true"
```
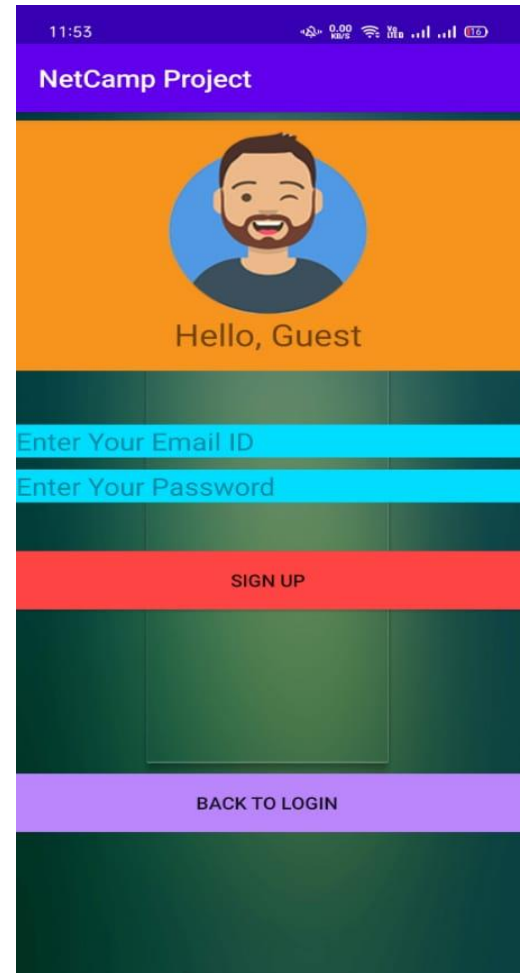
```xml
        android:layout_marginStart="-1dp"
        android:layout_marginTop="43dp"
        android:layout_marginEnd="0dp"
        android:background="@color/purple_200"
        android:text="Back To Login" />

    <ImageView
        android:id="@+id/imageView2"
        android:layout_width="match_parent"
        android:layout_height="214dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginTop="3dp"
        app:srcCompat="@drawable/l"
        android:layout_alignParentLeft="true" />

    <ProgressBar
        android:id="@+id/progressBarN2"
        style="?android:attr/progressBarStyle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonN3"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="44dp"
        android:visibility="invisible" />
</RelativeLayout>

</ScrollView>
```

Normal.java

```java
package com.example.netcampproject;

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.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

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 Normal extends AppCompatActivity {

    Button b1,b2;
    EditText e1,e2;
    ProgressBar p1;
    FirebaseAuth firebaseAuth;
    String s1,s2;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_normal);
        getWindow().setBackgroundDrawableResource(R.drawable.lp);
        b1=(Button)findViewById(R.id.buttonN3);
        b2=(Button)findViewById(R.id.buttonN4);
        e1=(EditText)findViewById(R.id.editTextN3);
        e2=(EditText)findViewById(R.id.editTextN4);
        e2.setInputType(InputType.TYPE_CLASS_TEXT |
InputType.TYPE_TEXT_VARIATION_PASSWORD);
        p1=(ProgressBar)findViewById(R.id.progressBarN2);
        firebaseAuth=FirebaseAuth.getInstance();
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i=new Intent(Normal.this,NormalLogin.class);
                startActivity(i);
                finish();
            }
        });
        b1.setOnClickListener(new View.OnClickListener() {
                              @Override
                              public void onClick(View v) {
                                  s1 = e1.getText().toString();
                                  s2 = e2.getText().toString();
                                  if (s1.isEmpty()) {
                                      e1.setError("Please Fill Email Id");
                                      return;
                                  } else {
                                      if(s2.isEmpty()) {
```

```java
                                e2.setError("Please Fill Password");
                                return;
                            }
                        }

firebaseAuth.createUserWithEmailAndPassword(s1,s2).addOnCompleteListener(new
OnCompleteListener<AuthResult>() {
                    @Override
                    public void onComplete(@NonNull @org.jetbrains.annotations.NotNull
Task<AuthResult> task) {
                        if(task.isSuccessful()){
                            Toast.makeText(Normal.this, "Data Updated",
Toast.LENGTH_SHORT).show();
                            p1.setVisibility(View.VISIBLE);
                            Intent j=new Intent(Normal.this,NormalLogin.class);
                            startActivity(j);
                            finish();
                        }else{
                            Toast.makeText(Normal.this, "Data Not Updated",
Toast.LENGTH_SHORT).show();
                        }

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

- ❖ After Click On OTP Login
- ❖ Login Page With Phone Number

activity_otp_login.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
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=".OtpLogin">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <com.hbb20.CountryCodePicker
        android:id="@+id/cpp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="0dp"
        android:layout_marginLeft="0dp"
        android:layout_marginTop="250dp"
```

```xml
android:background="@color/browser_actions_bg_grey"></com.hbb20.CountryCodePicker>

    <EditText
        android:id="@+id/editTextOT"
        android:layout_width="272dp"
        android:layout_height="39dp"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_marginStart="-1dp"
        android:layout_marginLeft="-1dp"
        android:layout_marginTop="249dp"
        android:layout_marginEnd="0dp"
        android:layout_marginRight="0dp"
        android:layout_toEndOf="@+id/cpp"
        android:layout_toRightOf="@+id/cpp"
        android:background="@android:color/holo_orange_light"
        android:ems="10"
        android:hint="Enter Your Number"
        android:inputType="number"
        android:textSize="20sp" />

    <Button
        android:id="@+id/buttonOT"
        android:layout_width="165dp"
```
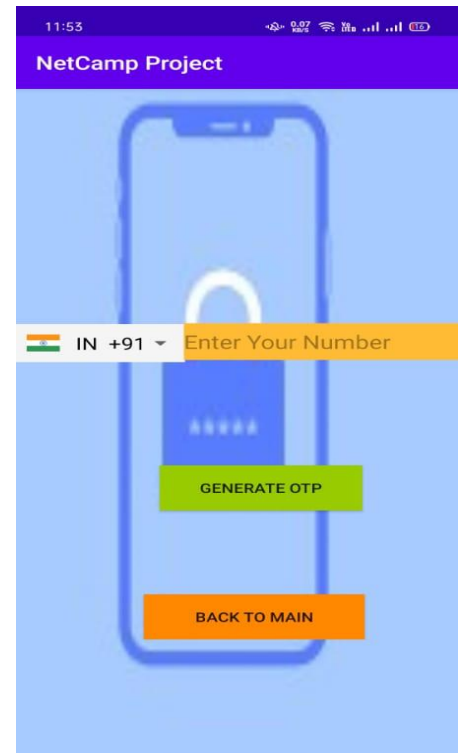
```xml
        android:layout_height="wrap_content"
        android:layout_below="@+id/editTextOT"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="117dp"
        android:layout_marginLeft="117dp"
        android:layout_marginTop="112dp"
        android:background="@android:color/holo_green_light"
        android:text="Generate OTP" />

    <Button
        android:id="@+id/buttonOT3"
        android:layout_width="180dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonOT"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="104dp"
        android:layout_marginLeft="104dp"
        android:layout_marginTop="89dp"
        android:background="@android:color/holo_orange_dark"
        android:text="Back to Main" />
</RelativeLayout>

</ScrollView>
```

OtpLogin.java

```java
package com.example.netcampproject;

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.appcompat.app.AppCompatActivity;

import com.hbb20.CountryCodePicker;

public class OtpLogin extends AppCompatActivity {
    Button b1,b2;
    EditText e1;
    CountryCodePicker ccp;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_otp_login);
        getWindow().setBackgroundDrawableResource(R.drawable.oq);
        b1=(Button)findViewById(R.id.buttonOT);
        b2=(Button)findViewById(R.id.buttonOT3);
        e1=(EditText)findViewById(R.id.editTextOT);
        ccp=(CountryCodePicker)findViewById(R.id.cpp);
        ccp.registerCarrierNumberEditText(e1);
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent j= new Intent(OtpLogin.this,MainActivity.class);
                startActivity(j);
                finish();
            }
        });
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if (e1.getText().toString().isEmpty()) {
                    e1.setError("Please Enter Number");
                    Toast.makeText(OtpLogin.this, "Enter Number",
Toast.LENGTH_SHORT).show();
                }
                else if(e1.getText().toString().length()!=10) {
                    e1.setError("Invalid Number");
                    Toast.makeText(OtpLogin.this, "Enter Valid Number",
Toast.LENGTH_SHORT).show();
                }
                else{
                    Intent i = new Intent(OtpLogin.this, Otp.class);
                    i.putExtra("Mobile", ccp.getFullNumberWithPlus().trim());
                    startActivity(i);
                }
            }
        });
    }
}
```

❖ **After Click On Generate OTP**

acitivity_otp.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".Otp">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <EditText
        android:id="@+id/editTextOT2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="143dp"

android:background="@android:color/holo_orange_light"
        android:ems="10"
        android:hint="Enter Your OTP"
        android:inputType="number"
        android:textSize="25sp" />

    <Button
        android:id="@+id/buttonOT2"
        android:layout_width="200dp"
        android:layout_height="58dp"
        android:layout_below="@+id/editTextOT2"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="112dp"
        android:layout_marginLeft="112dp"
        android:layout_marginTop="139dp"
        android:background="@color/teal_200"
        android:text="Verify" />
</RelativeLayout>
</ScrollView>
```
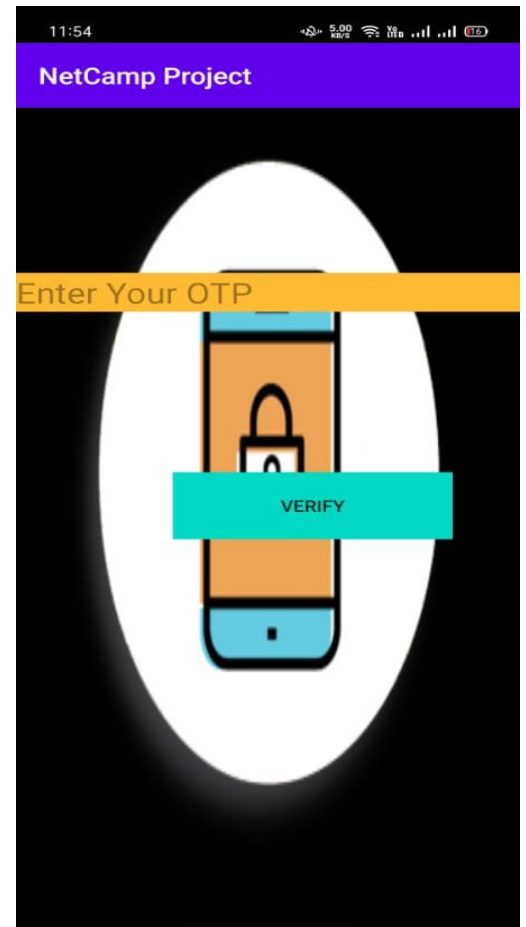
Otp.java

```java
package com.example.netcampproject;

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.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.FirebaseException;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.PhoneAuthCredential;
import com.google.firebase.auth.PhoneAuthProvider;
import com.google.firebase.database.annotations.NotNull;

import java.util.concurrent.TimeUnit;

public class Otp extends AppCompatActivity {
    Button b1;
    EditText e1;
    FirebaseAuth firebaseAuth;
    String phone;
    String otp;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_otp);
        getWindow().setBackgroundDrawableResource(R.drawable.sc);
        b1=(Button)findViewById(R.id.buttonOT2);
        e1=(EditText)findViewById(R.id.editTextOT2);
        phone=getIntent().getStringExtra("Mobile").toString();
        firebaseAuth= FirebaseAuth.getInstance();
        genotp();
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(e1.getText().toString().isEmpty()){
                    e1.setError("Enter OTP");
                }else{
                    if(e1.getText().toString().length()!=6){
                        e1.setError("Invalid OTP");
                        Toast.makeText(Otp.this, "Fill Valid OTP",
Toast.LENGTH_SHORT).show();
                    }else{
                        PhoneAuthCredential credential=
PhoneAuthProvider.getCredential(otp,e1.getText().toString());
                        SignWithPhoneAuthCredential(credential);
                    }
                }
            }
        });
    }private void genotp(){
```

```java
        PhoneAuthProvider.getInstance().verifyPhoneNumber(
                phone,
                60,
                TimeUnit.SECONDS,
                this,
                new PhoneAuthProvider.OnVerificationStateChangedCallbacks() {
                    @Override
                    public void onCodeSent(@NonNull @NotNull String s, @NonNull
@NotNull PhoneAuthProvider.ForceResendingToken forceResendingToken) {
                        super.onCodeSent(s, forceResendingToken);
                        otp=s;
                    }

                    @Override
                    public void onVerificationCompleted(@NonNull
@org.jetbrains.annotations.NotNull PhoneAuthCredential phoneAuthCredential) {
                        SignWithPhoneAuthCredential(phoneAuthCredential);

                    }

                    @Override
                    public void onVerificationFailed(@NonNull
@org.jetbrains.annotations.NotNull FirebaseException e) {
                        Toast.makeText(Otp.this, "NOT MAtch",
Toast.LENGTH_SHORT).show();

                    }
                }

        );
    }private void SignWithPhoneAuthCredential(PhoneAuthCredential credential){
        firebaseAuth.signInWithCredential(credential).addOnCompleteListener(new
OnCompleteListener<AuthResult>() {
            @Override
            public void onComplete(@NonNull @NotNull Task<AuthResult> task) {
                if(task.isSuccessful()){
                    Toast.makeText(Otp.this, "Login Successfully",
Toast.LENGTH_SHORT).show();
                    Intent i= new Intent(Otp.this,Menu.class);
                    startActivity(i);
                    finish();
                }
                else{
                    Toast.makeText(Otp.this, "Not VAlid", Toast.LENGTH_SHORT).show();
                }
            }
        });
    }
}
```

❖ After Click On Offline Database
❖ Login Page With Username and Password

activity_login_offline.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".LoginOffline">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <EditText
        android:id="@+id/editText0"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/imageViewCA"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentRight="true"
        android:layout_marginStart="0dp"
        android:layout_marginLeft="0dp"
        android:layout_marginTop="31dp"
        android:layout_marginRight="5dp"

android:background="@android:color/holo_blue_bright"
        android:ems="10"
        android:hint="Enter Your Username"
        android:inputType="textPersonName"
        android:textSize="20sp" />

    <EditText
        android:id="@+id/editText02"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editText0"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_marginStart="-1dp"
        android:layout_marginLeft="-1dp"
        android:layout_marginTop="19dp"
        android:background="@android:color/holo_blue_bright"
        android:ems="10"
        android:hint="Enter Your Password"
        android:inputType="textPassword"
        android:textSize="20sp" />

    <Button
        android:id="@+id/button0"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editText02"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="35dp"
        android:background="@color/design_default_color_secondary"
```
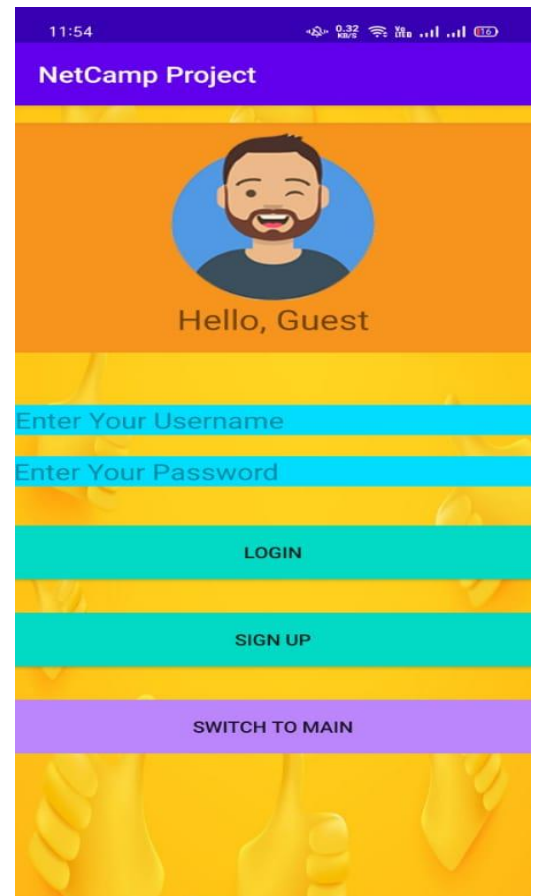
```xml
            android:text="Login" />

        <Button
            android:id="@+id/buttonO2"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_below="@+id/buttonO"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="30dp"
            android:background="@color/teal_200"
            android:text="Sign Up" />

        <ImageView
            android:id="@+id/imageViewCA"
            android:layout_width="match_parent"
            android:layout_height="237dp"
            android:layout_alignParentStart="true"
            android:layout_alignParentTop="true"
            android:layout_alignParentEnd="true"
            android:layout_marginStart="0dp"
            android:layout_marginTop="0dp"
            android:layout_marginEnd="0dp"
            app:srcCompat="@drawable/l" />

        <Button
            android:id="@+id/buttonO5"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_below="@+id/buttonO2"
            android:layout_alignParentStart="true"
            android:layout_alignParentLeft="true"
            android:layout_marginStart="0dp"
            android:layout_marginLeft="0dp"
            android:layout_marginTop="30dp"
            android:background="@color/purple_200"
            android:text="Switch To Main" />

    </RelativeLayout>

</ScrollView>
```

LoginOffline.java

```java
package com.example.netcampproject;

import android.content.Intent;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class LoginOffline extends AppCompatActivity {
    Button b1,b2,b3;
    EditText e1,e2;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login_offline);
        getWindow().setBackgroundDrawableResource(R.drawable.of);
        b1=(Button)findViewById(R.id.buttonO);
        b2=(Button)findViewById(R.id.buttonO2);
        b3=(Button)findViewById(R.id.buttonO5);
        e1=(EditText)findViewById(R.id.editTextO);
        e2=(EditText)findViewById(R.id.editTextO2);
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i= new Intent(LoginOffline.this,Offline.class);
                startActivity(i);
                finish();
            }
        });
        b3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent k= new Intent(LoginOffline.this,MainActivity.class);
                startActivity(k);
                finish();
            }
        });
        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 Enter Username");
                }else if(s2.isEmpty()) {
                    e2.setError("Please Enter Password");
                }
                else{
                    SQLiteDatabase
sql=openOrCreateDatabase("rohit",MODE_PRIVATE,null);
                    sql.execSQL("create table if not exists student (name
```

```
varchar,username varchar,email varchar,password varchar)");
                    String s3="select * from student where username='"+s1+"' and
password='"+s2+"'";
                    Cursor c1=sql.rawQuery(s3,null);
                    if(c1.getCount()>0){
                        Intent j= new Intent(LoginOffline.this,Menu.class);
                        startActivity(j);
                        finish();
                    }
                    else{
                        Toast.makeText(LoginOffline.this, "Invalid name or Email",
Toast.LENGTH_SHORT).show();
                    }
                }
            }
        });
    }
}
```

❖ After Click On Sign Up button

activity_offline.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".Offline">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <EditText
        android:id="@+id/editText03"
        android:layout_width="412dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/imageView"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_marginTop="10dp"

android:background="@android:color/holo_blue_bright"
        android:ems="10"
        android:hint="Enter Your Name"
        android:inputType="textPersonName"
        android:textSize="20sp" />

    <EditText
        android:id="@+id/editText04"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editText03"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="10dp"

android:background="@android:color/holo_blue_bright"
        android:ems="10"
        android:hint="Enter Your Username"
        android:inputType="textPersonName"
        android:textSize="20sp" />

    <EditText
        android:id="@+id/editText05"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editText04"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_marginTop="10dp"
        android:background="@android:color/holo_blue_bright"
        android:ems="10"
        android:hint="Enter Your Email ID"
        android:inputType="textPersonName"
        android:textSize="20sp" />
```
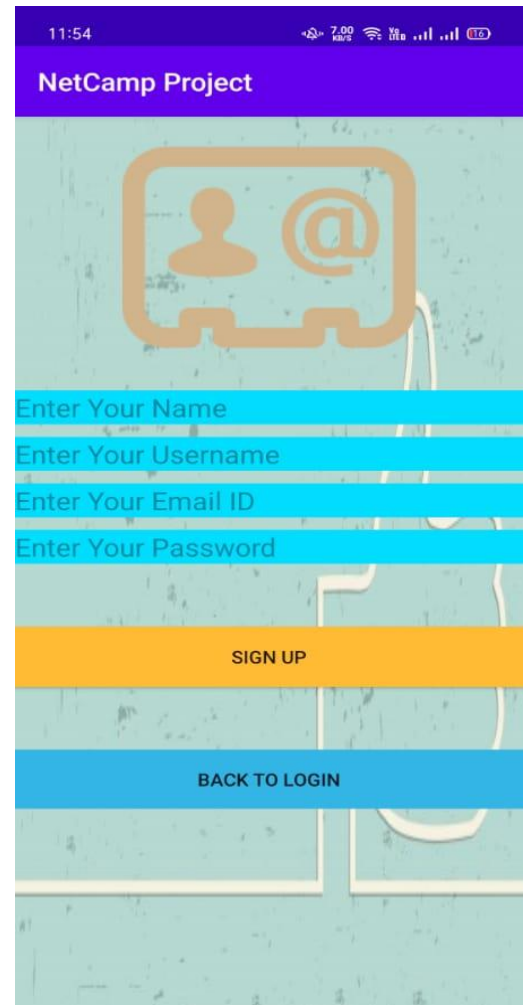
```xml
<EditText
    android:id="@+id/editText06"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@+id/editText05"
    android:layout_alignParentStart="true"
    android:layout_alignParentLeft="true"
    android:layout_marginTop="10dp"
    android:background="@android:color/holo_blue_bright"
    android:ems="10"
    android:hint="Enter Your Password"
    android:inputType="textPassword"
    android:textSize="20sp" />

<Button
    android:id="@+id/button03"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@+id/editText06"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="50dp"
    android:background="@android:color/holo_orange_light"
    android:text="Sign up" />

<Button
    android:id="@+id/button04"
    android:layout_width="match_parent"
    android:layout_height="47dp"
    android:layout_below="@+id/button03"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="50dp"
    android:background="@android:color/holo_blue_light"
    android:text="Back to Login" />

<ImageView
    android:id="@+id/imageView"
    android:layout_width="match_parent"
    android:layout_height="208dp"
    android:layout_alignParentTop="true"
    app:srcCompat="@drawable/he" />
</RelativeLayout>
</ScrollView>
```

Offline.java

```java
package com.example.netcampproject;

import android.content.Intent;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class Offline extends AppCompatActivity {
    Button b1,b2;
    EditText e1,e2,e3,e4;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_offline);
        getWindow().setBackgroundDrawableResource(R.drawable.op);
        b1=(Button)findViewById(R.id.buttonO3);
        b2=(Button)findViewById(R.id.buttonO4);
        e1=(EditText)findViewById(R.id.editTextO3);
        e2=(EditText)findViewById(R.id.editTextO4);
        e3=(EditText)findViewById(R.id.editTextO5);
        e4=(EditText)findViewById(R.id.editTextO6);
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i= new Intent(Offline.this,LoginOffline.class);
                startActivity(i);
                finish();
            }
        });
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String s1=e1.getText().toString();
                String s2=e2.getText().toString();
                String s3=e3.getText().toString();
                String s4=e4.getText().toString();
                if(s1.isEmpty()) {
                    e1.setError("Please Enter Name");
                }else if(s2.isEmpty()){
                    e2.setError("Please Enter Username");
                }else if(s3.isEmpty()){
                    e3.setError("Please Enter Email ID");
                }else if(s4.isEmpty()){
                    e4.setError("Please Enter Password");
                }
                else{
                    SQLiteDatabase
sql=openOrCreateDatabase("rohit",MODE_PRIVATE,null);
                    sql.execSQL("create table if not exists student(name
varchar,username varchar,email varchar,password varchar)");
                    String s5="select * from student where username='"+s2+"' and
password='"+s4+"'";
```

```java
                Cursor c1= sql.rawQuery(s5,null);
                if(c1.getCount()>0){
                    Toast.makeText(Offline.this, "User Already Exist",
Toast.LENGTH_SHORT).show();
                }else{
                    sql.execSQL("insert into student values
('"+s1+"','"+s2+"','"+s3+"','"+s4+"')");
                    Toast.makeText(Offline.this, "Registration Done!!",
Toast.LENGTH_SHORT).show();
                    Intent j= new Intent(Offline.this,LoginOffline.class);
                    startActivity(j);
                    finish();
                }
            }
        }
    });

    }
}
```

❖ After Login went to Menu File

activity_menu.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".Menu">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <ImageButton
        android:id="@+id/imageButtonM"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="33dp"
        android:layout_marginLeft="50dp"
        android:layout_marginTop="50dp"
        android:background="@color/white"
        app:srcCompat="@drawable/ic_calculator"
        tools:ignore="VectorDrawableCompat" />

    <ImageButton
        android:id="@+id/imageButtonM2"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_alignParentStart="false"
        android:layout_alignParentLeft="false"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="false"
        android:layout_alignParentRight="false"
        android:layout_marginStart="33dp"
        android:layout_marginLeft="50dp"
        android:layout_marginTop="50dp"
        android:layout_toEndOf="@+id/imageButtonM"
        android:layout_toRightOf="@id/imageButtonM"
        android:background="@color/white"
        app:srcCompat="@drawable/ic_torch"
        tools:ignore="VectorDrawableCompat" />

    <ImageButton
        android:id="@+id/imageButtonM3"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_alignParentTop="true"
        android:layout_marginStart="33dp"
        android:layout_marginLeft="50dp"
        android:layout_marginTop="50dp"
        android:layout_toEndOf="@+id/imageButtonM2"
        android:layout_toRightOf="@+id/imageButtonM2"
        android:background="@color/white"
        app:srcCompat="@drawable/ic_bluetooth"
        tools:ignore="VectorDrawableCompat" />

    <ImageButton
```
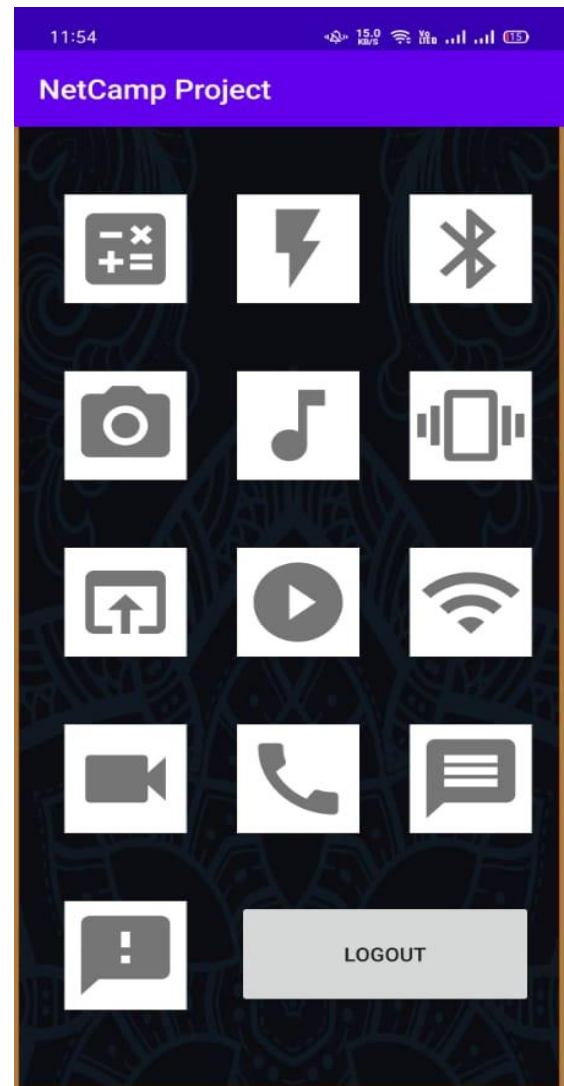
```xml
        android:id="@+id/imageButtonM4"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_below="@+id/imageButtonM"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="false"
        android:layout_alignParentEnd="false"
        android:layout_alignParentRight="true"
        android:layout_marginStart="33dp"
        android:layout_marginTop="50dp"
        android:layout_marginRight="274dp"
        android:background="@color/white"
        app:srcCompat="@drawable/ic_camera" />

    <ImageButton
        android:id="@+id/imageButtonM5"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_below="@+id/imageButtonM2"
        android:layout_alignParentTop="false"
        android:layout_marginStart="33dp"
        android:layout_marginTop="50dp"
        android:layout_toEndOf="@+id/imageButtonM4"
        android:background="@color/white"
        app:srcCompat="@drawable/ic_music" />

    <ImageButton
        android:id="@+id/imageButtonM6"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_below="@+id/imageButtonM3"
        android:layout_marginStart="33dp"
        android:layout_marginTop="50dp"
        android:layout_toEndOf="@+id/imageButtonM5"
        android:background="@color/white"
        app:srcCompat="@drawable/ic_vibrator" />

    <ImageButton
        android:id="@+id/imageButtonM7"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_below="@+id/imageButtonM4"
        android:layout_alignParentStart="true"
        android:layout_alignParentRight="false"
        android:layout_marginStart="33dp"
        android:layout_marginTop="50dp"
        android:background="@color/white"
        app:srcCompat="@drawable/ic_browser" />

    <ImageButton
        android:id="@+id/imageButtonM8"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_below="@+id/imageButtonM5"
        android:layout_marginStart="33dp"
        android:layout_marginTop="50dp"
        android:layout_toEndOf="@+id/imageButtonM7"
        android:background="@color/white"
        android:textAlignment="gravity"
        app:srcCompat="@drawable/ic_vedioplayer" />

    <ImageButton
```

```xml
        android:id="@+id/imageButtonM9"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_below="@+id/imageButtonM6"
        android:layout_marginStart="33dp"
        android:layout_marginTop="50dp"
        android:layout_toEndOf="@+id/imageButtonM8"
        android:background="@color/white"
        app:srcCompat="@drawable/ic_wifi" />

    <ImageButton
        android:id="@+id/imageButtonM10"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_below="@+id/imageButtonM7"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentRight="false"
        android:layout_marginStart="33dp"
        android:layout_marginTop="50dp"
        android:background="@color/white"
        app:srcCompat="@drawable/ic_vedio" />

    <ImageButton
        android:id="@+id/imageButtonM11"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_below="@+id/imageButtonM8"
        android:layout_marginStart="33dp"
        android:layout_marginTop="50dp"
        android:layout_toEndOf="@+id/imageButtonM10"
        android:background="@color/white"
        app:srcCompat="@drawable/ic_call" />

    <ImageButton
        android:id="@+id/imageButtonM12"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_below="@+id/imageButtonM9"
        android:layout_marginStart="33dp"
        android:layout_marginTop="50dp"
        android:layout_toEndOf="@+id/imageButtonM11"
        android:background="@color/white"
        app:srcCompat="@drawable/ic_message" />

    <ImageButton
        android:id="@+id/imageButtonM13"
        android:layout_width="80dp"
        android:layout_height="80dp"
        android:layout_below="@+id/imageButtonM10"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="false"
        android:layout_alignParentRight="false"
        android:layout_marginStart="33dp"
        android:layout_marginTop="50dp"
        android:background="@color/white"
        app:srcCompat="@drawable/ic_feedback" />

    <Button
        android:id="@+id/buttonLogout"
        android:layout_width="194dp"
        android:layout_height="78dp"
        android:layout_below="@+id/imageButtonM11"
```

```xml
            android:layout_marginStart="33dp"
            android:layout_marginTop="50dp"
            android:layout_toEndOf="@+id/imageButtonM13"
            android:text="Logout" />

    </RelativeLayout>
</ScrollView>
```

Menu.java

```java
package com.example.netcampproject;

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 android.widget.ImageButton;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import com.google.android.gms.auth.api.signin.GoogleSignIn;
import com.google.android.gms.auth.api.signin.GoogleSignInClient;
import com.google.android.gms.auth.api.signin.GoogleSignInOptions;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.FirebaseAuth;

public class Menu extends AppCompatActivity {
    ImageButton i1,i2,i3,i4,i5,i6,i7,i8,i9,i10,i11,i12,i13;
    Button b1;
    Vibrator v1;
    FirebaseAuth firebaseAuth;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_menu);
        getWindow().setBackgroundDrawableResource(R.drawable.fr);
        firebaseAuth=FirebaseAuth.getInstance();
        i1=(ImageButton)findViewById(R.id.imageButtonM);
        i2=(ImageButton)findViewById(R.id.imageButtonM2);
        i3=(ImageButton)findViewById(R.id.imageButtonM3);
        i4=(ImageButton)findViewById(R.id.imageButtonM4);
        i5=(ImageButton)findViewById(R.id.imageButtonM5);
        i6=(ImageButton)findViewById(R.id.imageButtonM6);
        i7=(ImageButton)findViewById(R.id.imageButtonM7);
        i8=(ImageButton)findViewById(R.id.imageButtonM8);
        i9=(ImageButton)findViewById(R.id.imageButtonM9);
        i10=(ImageButton)findViewById(R.id.imageButtonM10);
        i11=(ImageButton)findViewById(R.id.imageButtonM11);
        i12=(ImageButton)findViewById(R.id.imageButtonM12);
        i13=(ImageButton)findViewById(R.id.imageButtonM13);
        b1=(Button)findViewById(R.id.buttonLogout);


        i1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i= new Intent(Menu.this,Calci.class);
                startActivity(i);
                finish();
            }
        });
        i2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent j= new Intent(Menu.this,Torch.class);
```

```java
                startActivity(j);
                finish();
            }
        });
        i3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent k= new Intent(Menu.this,Bluetooth.class);
                startActivity(k);
                finish();
            }
        });
        i4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent l=new Intent(Menu.this,Camera.class);
                startActivity(l);
                finish();
            }
        });
        i5.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent m= new Intent(Menu.this,Music.class);
                startActivity(m);
                finish();
            }
        });
        i6.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                v1 = (Vibrator) getSystemService(VIBRATOR_SERVICE);
                if (Build.VERSION.SDK_INT > 26) {
                    v1.vibrate(500);
                } else {
                    v1.vibrate(50);
                }
            }
        });
        i7.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent o= new Intent(Menu.this,Browser.class);
                startActivity(o);
                finish();
            }
        });
        i8.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent p=new Intent(Menu.this,Vedio.class);
                startActivity(p);
                finish();
            }
        });
        i9.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent q= new Intent(Menu.this,Wifi.class);
                startActivity(q);
                finish();
            }
        });
```

```java
        i10.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent r=new Intent(Menu.this,CameraVedio.class);
                startActivity(r);
                finish();
            }
        });
        i11.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent s=new Intent(Menu.this,Call.class);
                startActivity(s);
                finish();
            }
        });
        i12.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent t=new Intent(Menu.this,Message.class);
                startActivity(t);
                finish();
            }
        });

        i13.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent u=new Intent(Menu.this,Feedback.class);
                startActivity(u);
                finish();
            }
        });

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                GoogleSignInClient googleSignInClient =
GoogleSignIn.getClient(Menu.this, GoogleSignInOptions.DEFAULT_SIGN_IN);
                googleSignInClient.signOut().addOnCompleteListener(new
OnCompleteListener<Void>() {
                    @Override
                    public void onComplete(Task<Void> task) {
                        if (task.isSuccessful()) {
                            Toast.makeText(Menu.this, "Logout",
Toast.LENGTH_SHORT).show();
                            firebaseAuth.signOut();
                            finish();
                        }
                        Intent i= new Intent(Menu.this,MainActivity.class);
                        startActivity(i);
                        finish();
                    }
                });
            }
        });
    }
}
```

❖ After Click On Calculator Icon

activity_calci.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
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=".Calci">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <EditText
        android:id="@+id/editTextC"
        android:layout_width="412dp"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_marginTop="61dp"

android:background="@android:color/holo_orange_dark"
        android:ems="10"

        android:focusableInTouchMode="false"
        android:hint="Enter Your 1st Number"
        android:inputType="numberDecimal"
        android:textSize="20sp" />

    <EditText
        android:id="@+id/editTextC2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editTextC"
        android:layout_alignParentStart="true"
        android:layout_marginStart="0dp"
        android:layout_marginTop="7dp"
        android:background="@android:color/holo_orange_dark"
        android:ems="10"
        android:focusableInTouchMode="false"
        android:hint="Enter Your 2nd Number"
        android:inputType="numberDecimal"
        android:textSize="20sp" />

    <TextView
        android:id="@+id/textViewC"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editTextC2"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_marginTop="19dp"
        android:layout_marginEnd="7dp"
        android:layout_marginRight="7dp"
        android:background="@android:color/holo_blue_bright"
        android:hint="Result"
        android:textSize="18sp" />
```
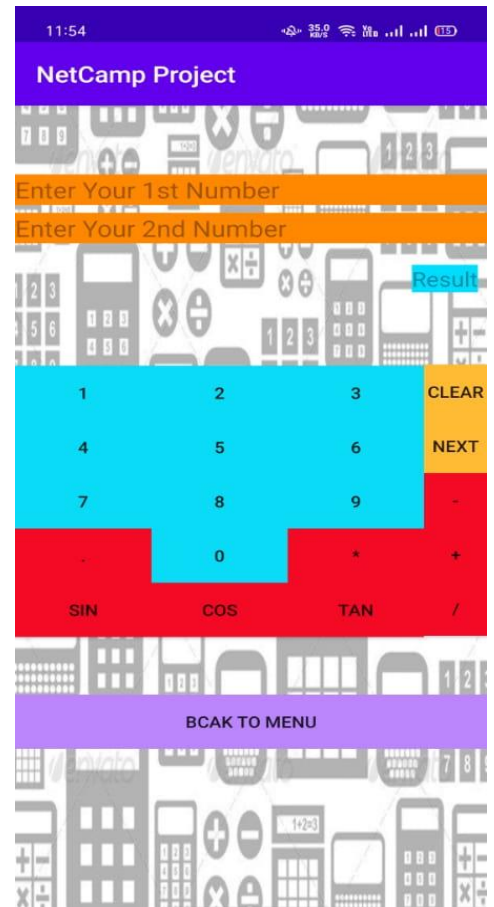
```xml
<Button
    android:id="@+id/buttonC1"
    android:layout_width="104dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/textViewC"
    android:layout_alignParentStart="true"
    android:layout_marginStart="0dp"
    android:layout_marginTop="65dp"
    android:background="#0adcf8"
    android:text="1" />

<Button
    android:id="@+id/buttonC2"
    android:layout_width="104dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/textViewC"
    android:layout_marginTop="65dp"
    android:layout_toEndOf="@+id/buttonC1"
    android:layout_toRightOf="@+id/buttonC1"
    android:background="#0adcf8"
    android:text="2" />

<Button
    android:id="@+id/buttonC3"
    android:layout_width="104dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/textViewC"
    android:layout_marginTop="65dp"
    android:layout_toEndOf="@+id/buttonC2"
    android:layout_toRightOf="@+id/buttonC2"
    android:background="#0adcf8"
    android:text="3" />

<Button
    android:id="@+id/buttonCclear"
    android:layout_width="104dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/textViewC"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="64dp"
    android:layout_toEndOf="@+id/buttonC3"
    android:layout_toRightOf="@+id/buttonC3"
    android:background="@android:color/holo_orange_light"
    android:text="Clear" />

<Button
    android:id="@+id/buttonC4"
    android:layout_width="104dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/buttonC1"
    android:layout_alignParentStart="true"
    android:layout_marginStart="0dp"
    android:layout_marginTop="0dp"
    android:background="#0adcf8"
    android:text="4" />

<Button
    android:id="@+id/buttonC5"
    android:layout_width="104dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/buttonC2"
    android:layout_toEndOf="@+id/buttonC4"
    android:layout_toRightOf="@+id/buttonC4"
```

```xml
        android:background="#0adcf8"
        android:text="5" />

    <Button
        android:id="@+id/buttonC6"
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonC3"
        android:layout_toEndOf="@+id/buttonC5"
        android:layout_toRightOf="@+id/buttonC5"
        android:background="#0adcf8"
        android:text="6" />

    <Button
        android:id="@+id/buttonCnext"
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonCclear"
        android:layout_alignParentEnd="true"
        android:layout_marginStart="0dp"
        android:layout_marginLeft="0dp"
        android:layout_marginTop="0dp"
        android:layout_marginEnd="0dp"
        android:layout_toEndOf="@+id/buttonC6"
        android:layout_toRightOf="@+id/buttonC6"
        android:background="@android:color/holo_orange_light"
        android:text="Next" />

    <Button
        android:id="@+id/buttonC7"
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonC4"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_marginStart="0dp"
        android:layout_marginLeft="0dp"
        android:layout_marginTop="0dp"
        android:background="#0adcf8"
        android:text="7" />

    <Button
        android:id="@+id/buttonC8"
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonC5"
        android:layout_toEndOf="@+id/buttonC7"
        android:layout_toRightOf="@+id/buttonC7"
        android:background="#0adcf8"
        android:text="8" />

    <Button
        android:id="@+id/buttonC9"
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonC6"
        android:layout_toEndOf="@+id/buttonC8"
        android:layout_toRightOf="@+id/buttonC8"
        android:background="#0adcf8"
        android:text="9" />

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

```xml
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonCnext"
        android:layout_alignParentEnd="true"
        android:layout_marginStart="0dp"
        android:layout_marginLeft="0dp"
        android:layout_marginTop="0dp"
        android:layout_marginEnd="0dp"
        android:layout_marginBottom="0dp"
        android:layout_toEndOf="@+id/buttonC9"
        android:layout_toRightOf="@+id/buttonC9"
        android:background="#FFF50A25"
        android:text="-" />

    <Button
        android:id="@+id/buttonCdot"
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonC7"
        android:layout_alignParentStart="true"
        android:layout_marginStart="0dp"
        android:layout_marginTop="0dp"
        android:background="#FFF50A25"
        android:text="." />

    <Button
        android:id="@+id/buttonC0"
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonC8"
        android:layout_toEndOf="@+id/buttonCdot"
        android:layout_toRightOf="@+id/buttonCdot"
        android:background="#0adcf8"
        android:text="0" />

    <Button
        android:id="@+id/buttonCmul"
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonC9"
        android:layout_toEndOf="@+id/buttonC0"
        android:layout_toRightOf="@+id/buttonC0"
        android:background="#FFF50A25"
        android:text="*" />

    <Button
        android:id="@+id/buttonCadd"
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonCminus"
        android:layout_alignParentEnd="true"
        android:layout_marginStart="0dp"
        android:layout_marginLeft="0dp"
        android:layout_marginTop="0dp"
        android:layout_marginEnd="0dp"
        android:layout_marginBottom="0dp"
        android:layout_toEndOf="@+id/buttonCmul"
        android:layout_toRightOf="@+id/buttonCmul"
        android:background="#FFF50A25"
        android:text="+" />

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

```xml
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonCdot"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_marginStart="0dp"
        android:layout_marginLeft="0dp"
        android:layout_marginTop="0dp"
        android:background="#FFF50A25"
        android:text="sin" />

    <Button
        android:id="@+id/buttonCcos"
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonC0"
        android:layout_toEndOf="@+id/buttonCsin"
        android:layout_toRightOf="@+id/buttonCsin"
        android:background="#FFF50A25"
        android:text="cos" />

    <Button
        android:id="@+id/buttonCtan"
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonCmul"
        android:layout_toEndOf="@+id/buttonCcos"
        android:layout_toRightOf="@+id/buttonCcos"
        android:background="#FFF50A25"
        android:text="tan" />

    <Button
        android:id="@+id/buttonCdivide"
        android:layout_width="104dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonCadd"
        android:layout_alignParentEnd="true"
        android:layout_marginStart="0dp"
        android:layout_marginLeft="0dp"
        android:layout_marginTop="0dp"
        android:layout_marginEnd="0dp"
        android:layout_toEndOf="@+id/buttonCtan"
        android:layout_toRightOf="@+id/buttonCtan"
        android:background="#FFF50A25"
        android:text="/" />

    <Button
        android:id="@+id/buttonCback"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonCcos"
        android:layout_alignParentStart="true"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="0dp"
        android:layout_marginTop="51dp"
        android:background="@color/purple_200"
        android:text="Bcak To Menu" />
    </RelativeLayout>
</ScrollView>
```

Calci.java

```java
package com.example.netcampproject;

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

import androidx.appcompat.app.AppCompatActivity;

public class Calci extends AppCompatActivity {
    Button b0,b1,b2,b3,b4,b5,b6,b7,b8,b9,b10,b11,b12,b13,b14,b15,b16,b17,b18,b19,b20;
    EditText e1,e2;
    String s1,s2;
    TextView t1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_calci);
        getWindow().setBackgroundDrawableResource(R.drawable.ca);
        b0=(Button)findViewById(R.id.buttonC0);
        b1=(Button)findViewById(R.id.buttonC1);
        b2=(Button)findViewById(R.id.buttonC2);
        b3=(Button)findViewById(R.id.buttonC3);
        b4=(Button)findViewById(R.id.buttonC4);
        b5=(Button)findViewById(R.id.buttonC5);
        b6=(Button)findViewById(R.id.buttonC6);
        b7=(Button)findViewById(R.id.buttonC7);
        b8=(Button)findViewById(R.id.buttonC8);
        b9=(Button)findViewById(R.id.buttonC9);
        b10=(Button)findViewById(R.id.buttonCdot);
        b11=(Button)findViewById(R.id.buttonCmul);
        b12=(Button)findViewById(R.id.buttonCadd);
        b13=(Button)findViewById(R.id.buttonCminus);
        b14=(Button)findViewById(R.id.buttonCnext);
        b15=(Button)findViewById(R.id.buttonCdivide);
        b16=(Button)findViewById(R.id.buttonCsin);
        b17=(Button)findViewById(R.id.buttonCcos);
        b18=(Button)findViewById(R.id.buttonCtan);
        b19=(Button)findViewById(R.id.buttonCclear);
        b20=(Button)findViewById(R.id.buttonCback);
        e1=(EditText)findViewById(R.id.editTextC);
        e2=(EditText)findViewById(R.id.editTextC2);
        t1=(TextView)findViewById(R.id.textViewC);

        e1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                b0.setOnClickListener(new View.OnClickListener() {
                    @Override
                    public void onClick(View view) {
                        e1.setText(e1.getText() + "0");
                    }
```

```java
        });

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e1.setText(e1.getText() + "1");
            }
        });

        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e1.setText(e1.getText() + "2");
            }
        });

        b3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e1.setText(e1.getText() + "3");
            }
        });

        b4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e1.setText(e1.getText() + "4");
            }
        });

        b5.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e1.setText(e1.getText() + "5");
            }
        });

        b6.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e1.setText(e1.getText() + "6");
            }
        });

        b7.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e1.setText(e1.getText() + "7");
            }
        });

        b8.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e1.setText(e1.getText() + "8");
            }
        });

        b9.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e1.setText(e1.getText() + "9");
            }
```

```java
                });

                b10.setOnClickListener(new View.OnClickListener() {
                    @Override
                    public void onClick(View view) {
                        e1.setText(e1.getText() + ".");
                    }
                });

            }
        });

        b11.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                s1 = e1.getText().toString();
                s2 = e2.getText().toString();
                if (s1.isEmpty()  || s2.isEmpty()) {
                    Toast.makeText(Calci.this, "Enter Number",
Toast.LENGTH_SHORT).show();
                }else{
                    Float f1 = Float.parseFloat(s1);
                    Float f2 = Float.parseFloat(s2);
                    Float f3 = f1 * f2;
                    String s3 = Float.toString(f3);
                    t1.setText(s3);
                }

            }
        });

        b12.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                s1 = e1.getText().toString();
                s2 = e2.getText().toString();
                if (s1.isEmpty()  || s2.isEmpty()) {
                    Toast.makeText(Calci.this, "Enter Number",
Toast.LENGTH_SHORT).show();
                } else {
                    Float f1 = Float.parseFloat(s1);
                    Float f2 = Float.parseFloat(s2);
                    Float f3 = f1 + f2;
                    String s3 = Float.toString(f3);
                    t1.setText(s3);
                }
            }
        });

        b13.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                s1 = e1.getText().toString();
                s2 = e2.getText().toString();
                if (s1.isEmpty()  || s2.isEmpty()) {
                    Toast.makeText(Calci.this, "Enter Number",
Toast.LENGTH_SHORT).show();
                } else {
                    Float f1 = Float.parseFloat(s1);
                    Float f2 = Float.parseFloat(s2);
                    Float f3 = f1 - f2;
                    String s3 = Float.toString(f3);
                    t1.setText(s3);
```

```java
                }
            }

        });

b14.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        b0.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e2.setText(e2.getText() + "0");
            }
        });

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e2.setText(e2.getText() + "1");                }
        });

        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e2.setText(e2.getText() + "2");                }
        });

        b3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e2.setText(e2.getText() + "3");                }
        });

        b4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e2.setText(e2.getText() + "4");                }
        });

        b5.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e2.setText(e2.getText() + "5");                }
        });

        b6.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e2.setText(e2.getText() + "6");                }
        });

        b7.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e2.setText(e2.getText() + "7");                }
        });

        b8.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e2.setText(e2.getText() + "8");                }
        });
```

```java
            b9.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View view) {
                    e2.setText(e2.getText() + "9");                    }
            });

            b10.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View view) {
                    e2.setText(e2.getText() + ".");                     }
            });

        }
    });

    b15.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {

            s1 = e1.getText().toString();
            s2 = e2.getText().toString();
            if (s1.isEmpty() || s2.isEmpty()) {
                Toast.makeText(Calci.this, "Enter Number",
Toast.LENGTH_SHORT).show();
            } else {
                Float f1 = Float.parseFloat(s1);
                Float f2 = Float.parseFloat(s2);
                Float f3 = f1 / f2;
                String s3 = Float.toString(f3);
                t1.setText(s3);
            }
        }
    });

    b16.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {

            s1 = t1.getText().toString();
            if (s1.isEmpty()){
                Toast.makeText(Calci.this, "First Perform Operation",
Toast.LENGTH_SHORT).show();
            } else {
                Float f3 = Float.parseFloat(s1);
                double r = Math.toRadians(f3);
                double f4 = Math.sin(r);
                String s2 = Double.toString(f4);
                t1.setText(s2);
                Toast.makeText(Calci.this, "Consider the previous result as a
value", Toast.LENGTH_SHORT).show();
            }
        }
    });

    b17.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String s1 = t1.getText().toString();
            if (s1.isEmpty()) {
                Toast.makeText(Calci.this, "First Perform Operation",
Toast.LENGTH_SHORT).show();
            } else {
                Float f3 = Float.parseFloat(s1);
```

```java
                    double r = Math.toRadians(f3);
                    double f4 = Math.cos(r);
                    String s2 = Double.toString(f4);
                    t1.setText(s2);
                    Toast.makeText(Calci.this, "Consider the previous result as a
value", Toast.LENGTH_SHORT).show();
                }
            }
        });

        b18.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String s1 = t1.getText().toString();
                if (s1.isEmpty()) {
                    Toast.makeText(Calci.this, "First Perform Operation",
Toast.LENGTH_SHORT).show();
                } else {
                    Float f3 = Float.parseFloat(s1);
                    double r = Math.toRadians(f3);
                    double f4 = Math.tan(r);
                    String s2 = Double.toString(f4);
                    t1.setText(s2);
                    Toast.makeText(Calci.this, "Consider the previous result as a
value", Toast.LENGTH_SHORT).show();
                }
            }
        });

        b19.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                e1.setText("");
                e2.setText("");
                t1.setText("");
            }
        });

        b20.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i= new Intent(Calci.this,Menu.class);
                startActivity(i);
                finish();
            }
        });


    }
}
```

❖ After Click On Flash/Torch Icon

activity_torch.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".Torch">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <ToggleButton
        android:id="@+id/toggleButtonT"
        android:layout_width="match_parent"
        android:layout_height="64dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="0dp"
        android:layout_marginLeft="0dp"
        android:layout_marginTop="199dp"
        android:background="@color/teal_200"
        android:checked="false"
        android:text="ToggleButton"
        android:textOff="Torch OFF"
        android:textOn="Torch ON" />

    <Button
        android:id="@+id/buttonT"
        android:layout_width="150dp"
        android:layout_height="76dp"
        android:layout_below="@+id/toggleButtonT"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="181dp"
        android:background="@color/purple_200"
        android:text="Back to Menu" />
</RelativeLayout>
</ScrollView>
```
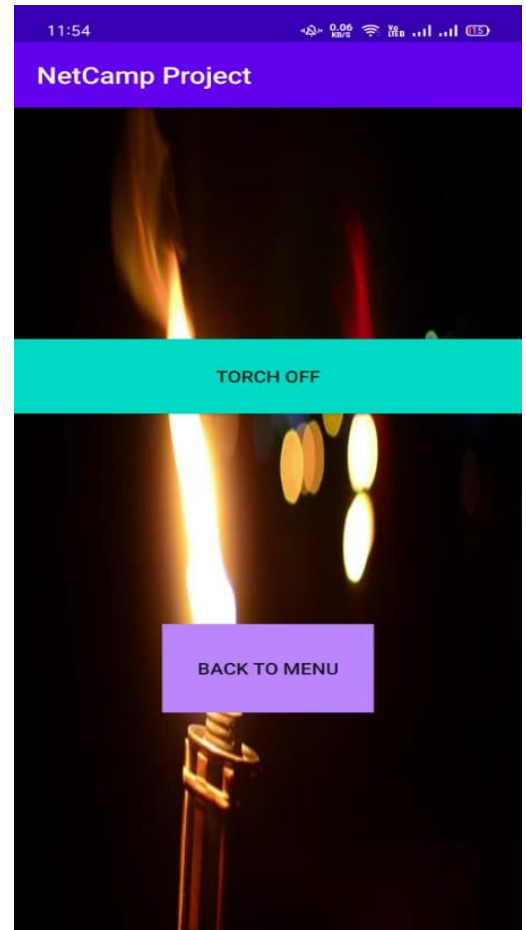
Torch.java

```java
package com.example.netcampproject;

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 android.widget.CompoundButton;
import android.widget.ToggleButton;

import androidx.appcompat.app.AppCompatActivity;

public class Torch extends AppCompatActivity {
    ToggleButton t1;
    Button b1;
    CameraManager cm;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_torch);
        getWindow().setBackgroundDrawableResource(R.drawable.to);
        t1=(ToggleButton)findViewById(R.id.toggleButtonT);
        b1=(Button)findViewById(R.id.buttonT);
        cm=(CameraManager)getSystemService(CAMERA_SERVICE);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i= new Intent(Torch.this,Menu.class);
                startActivity(i);
                finish();
            }
        });
        t1.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(CompoundButton buttonView, boolean isChecked)
{
                try{
                    if(isChecked) {
                        String s1 = cm.getCameraIdList()[0];
                        cm.setTorchMode(s1, true);
                    }
                    else{
                        String s1=cm.getCameraIdList()[0];
                        cm.setTorchMode(s1,false);
                    }
                }catch (CameraAccessException e){

                }
            }
        });
    }
}
```

❖ After Click On Bluetooth Icon

activity_bluetooth.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
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=".Bluetooth">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <ImageButton
        android:id="@+id/imageButtonB"
        android:layout_width="236dp"
        android:layout_height="230dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_marginStart="100dp"
        android:layout_marginTop="76dp"
        android:layout_marginEnd="75dp"
        android:contentDescription="TODO"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:srcCompat="@drawable/r" />

    <Button
        android:id="@+id/buttonB"
        android:layout_width="409dp"
        android:layout_height="50dp"
        android:layout_below="@+id/imageButtonB"
        android:layout_alignParentStart="true"
        android:layout_alignParentEnd="true"
        android:layout_marginStart="6dp"
        android:layout_marginTop="100dp"
        android:layout_marginEnd="5dp"
        android:background="@color/design_default_color_secondary"
        android:text="Back to Menu"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/imageButtonB" />
</RelativeLayout>

    </ScrollView>
```

Bluetooth.java

```java
package com.example.netcampproject;

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

import androidx.appcompat.app.AppCompatActivity;

public class Bluetooth extends AppCompatActivity {

    ImageButton i1;
    Button b1;
    BluetoothAdapter ba;
    private boolean blue=false;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_bluetooth);
        getWindow().setBackgroundDrawableResource(R.drawable.bl);
        b1=(Button)findViewById(R.id.buttonB);
        i1=(ImageButton)findViewById(R.id.imageButtonB);
        ba=BluetoothAdapter.getDefaultAdapter();
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i= new Intent(Bluetooth.this,Menu.class);
                startActivity(i);
                finish();
            }
        });
        i1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(blue==false){
                    ba.enable();
                    blue=true;
                    i1.setImageResource(R.drawable.o);
                }else{
                    ba.disable();
                    blue=false;
                    i1.setImageResource(R.drawable.r);

                }
            }
        });
    }
}
```

❖ After Click On Camera Icon

activity.camera.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".Camera">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <Button
        android:id="@+id/buttonCA"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/imageViewCA"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="40dp"

android:background="@color/design_default_color_on_primary"

android:backgroundTint="@android:color/holo_blue_bright"
        android:text="Click Here to Take Selfi" />

    <ImageView
        android:id="@+id/imageViewCA"
        android:layout_width="match_parent"
        android:layout_height="350dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="false"
        android:layout_alignParentTop="false"
        android:layout_alignParentEnd="true"
        android:layout_marginStart="0dp"
        android:layout_marginTop="50dp"
        android:layout_marginEnd="1dp"
        tools:srcCompat="@tools:sample/avatars" />

    <Button
        android:id="@+id/buttonCA2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonCA"
        android:layout_alignParentStart="true"
        android:layout_alignParentEnd="false"
        android:layout_marginTop="50dp"
        android:backgroundTint="@android:color/holo_purple"
        android:text="Back to Menu" />
    </RelativeLayout>
</ScrollView>
```
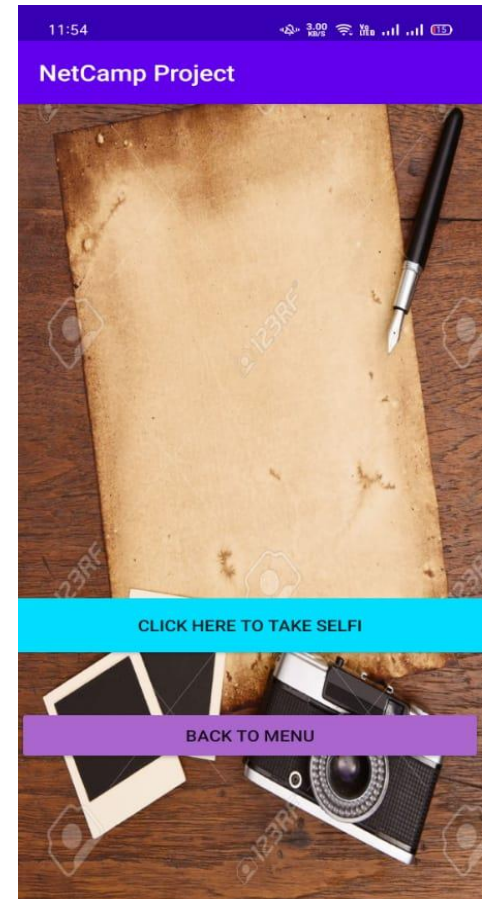
Camera.java

```java
package com.example.netcampproject;

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.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;

public class Camera extends AppCompatActivity {

    Button b1,b2;
    ImageView i1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_camera);
        getWindow().setBackgroundDrawableResource(R.drawable.cp);
        b1=(Button)findViewById(R.id.buttonCA);
        b2=(Button)findViewById(R.id.buttonCA2);
        i1=(ImageView)findViewById(R.id.imageViewCA);
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent j= new Intent(Camera.this,Menu.class);
                startActivity(j);
                finish();
            }
        });
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i= new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
                startActivityForResult(i,10);
            }
        });

    }

    @Override
    protected void onActivityResult(int requestCode, int resultCode, @Nullable
@org.jetbrains.annotations.Nullable Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        if(requestCode==10){
            Bitmap bp=(Bitmap)data.getExtras().get("data");
            i1.setImageBitmap(bp);
        }else {
            Toast.makeText(Camera.this, "Not Capture Photo",
Toast.LENGTH_SHORT).show();
        }
    }
}
```

❖ After Click On Music Icon

activity_music.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".Music">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <Button
        android:id="@+id/buttonM"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="false"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="false"
        android:layout_centerHorizontal="false"
        android:layout_marginTop="50dp"
        android:layout_marginEnd="0dp"

android:backgroundTint="@android:color/holo_orange_light"
        android:text="Play Song" />
    <Button
        android:id="@+id/buttonM2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/imageViewM"
        android:layout_alignParentStart="false"
        android:layout_marginTop="40dp"

android:backgroundTint="@android:color/holo_orange_light"
        android:text="Stop Song" />

    <ImageView
        android:id="@+id/imageViewM"
        android:layout_width="416dp"
        android:layout_height="291dp"
        android:layout_below="@+id/buttonM"
        android:layout_alignParentStart="true"
        android:layout_alignParentEnd="true"
        android:layout_marginTop="40dp"
        app:srcCompat="@drawable/mu" />

    <Button
        android:id="@+id/buttonM3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonM2"
        android:layout_alignParentStart="true"
        android:layout_marginStart="0dp"
        android:layout_marginTop="30dp"
        android:backgroundTint="@color/purple_200"
        android:text="Back to Menu" />
    </RelativeLayout>

</ScrollView>
```
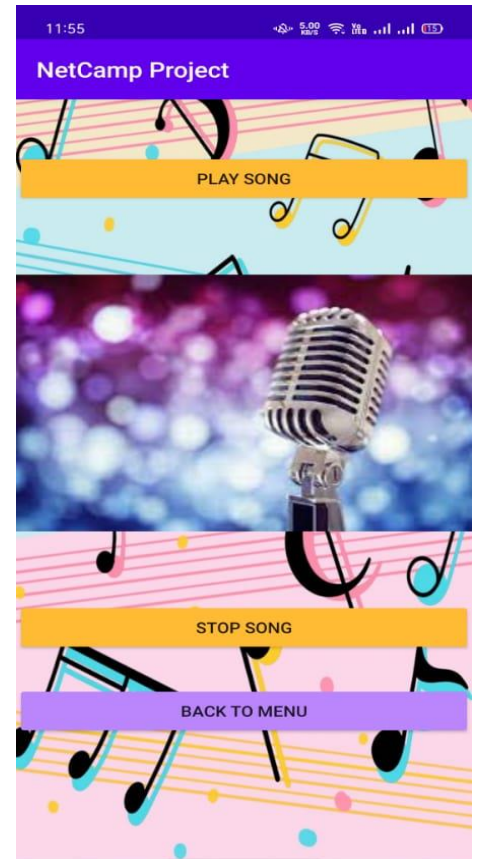
Music.java

```java
package com.example.netcampproject;

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

import androidx.appcompat.app.AppCompatActivity;

public class Music extends AppCompatActivity {
    Button b1,b2,b3;
    MediaPlayer m1;
    ImageView i1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_music);
        getWindow().setBackgroundDrawableResource(R.drawable.mp);
        b1=(Button)findViewById(R.id.buttonM);
        b2=(Button)findViewById(R.id.buttonM2);
        b3=(Button)findViewById(R.id.buttonM3);
        i1=(ImageView)findViewById(R.id.imageViewM);
        m1=MediaPlayer.create(this,R.raw.a);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                m1.start();
                i1.setImageResource(R.drawable.a);
            }
        });
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                m1.pause();
                i1.setImageResource(R.drawable.mu);
            }
        });
        b3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                m1.pause();
                Intent i= new Intent(Music.this,Menu.class);
                startActivity(i);
                finish();
            }
        });
    }
}
```

❖ After Click On Vibrate Icon

Menu.java For (Vibration)

```java
package com.example.netcampproject;

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 android.widget.ImageButton;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import com.google.android.gms.auth.api.signin.GoogleSignIn;
import com.google.android.gms.auth.api.signin.GoogleSignInClient;
import com.google.android.gms.auth.api.signin.GoogleSignInOptions;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.FirebaseAuth;

public class Menu extends AppCompatActivity {
    ImageButton i1,i2,i3,i4,i5,i6,i7,i8,i9,i10,i11,i12,i13;
    Button b1;
    Vibrator v1;
    FirebaseAuth firebaseAuth;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_menu);
        getWindow().setBackgroundDrawableResource(R.drawable.fr);
        firebaseAuth=FirebaseAuth.getInstance();
        i1=(ImageButton)findViewById(R.id.imageButtonM);
        i2=(ImageButton)findViewById(R.id.imageButtonM2);
        i3=(ImageButton)findViewById(R.id.imageButtonM3);
        i4=(ImageButton)findViewById(R.id.imageButtonM4);
        i5=(ImageButton)findViewById(R.id.imageButtonM5);
        i6=(ImageButton)findViewById(R.id.imageButtonM6);
        i7=(ImageButton)findViewById(R.id.imageButtonM7);
        i8=(ImageButton)findViewById(R.id.imageButtonM8);
        i9=(ImageButton)findViewById(R.id.imageButtonM9);
        i10=(ImageButton)findViewById(R.id.imageButtonM10);
        i11=(ImageButton)findViewById(R.id.imageButtonM11);
        i12=(ImageButton)findViewById(R.id.imageButtonM12);
        i13=(ImageButton)findViewById(R.id.imageButtonM13);
        b1=(Button)findViewById(R.id.buttonLogout);


        i1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i= new Intent(Menu.this,Calci.class);
                startActivity(i);
                finish();
            }
        });
        i2.setOnClickListener(new View.OnClickListener() {
```

```java
            @Override
            public void onClick(View v) {
                Intent j= new Intent(Menu.this,Torch.class);
                startActivity(j);
                finish();
            }
        });
        i3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent k= new Intent(Menu.this,Bluetooth.class);
                startActivity(k);
                finish();
            }
        });
        i4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent l=new Intent(Menu.this,Camera.class);
                startActivity(l);
                finish();
            }
        });
        i5.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent m= new Intent(Menu.this,Music.class);
                startActivity(m);
                finish();
            }
        });
        i6.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                v1 = (Vibrator) getSystemService(VIBRATOR_SERVICE);
                if (Build.VERSION.SDK_INT > 26) {
                    v1.vibrate(500);
                } else {
                    v1.vibrate(50);
                }
            }
        });
        i7.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent o= new Intent(Menu.this,Browser.class);
                startActivity(o);
                finish();
            }
        });
        i8.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent p=new Intent(Menu.this,Vedio.class);
                startActivity(p);
                finish();
            }
        });
        i9.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent q= new Intent(Menu.this,Wifi.class);
                startActivity(q);
```

```java
                finish();
            }
        });
        i10.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent r=new Intent(Menu.this,CameraVedio.class);
                startActivity(r);
                finish();
            }
        });
        i11.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent s=new Intent(Menu.this,Call.class);
                startActivity(s);
                finish();
            }
        });
        i12.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent t=new Intent(Menu.this,Message.class);
                startActivity(t);
                finish();
            }
        });

        i13.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent u=new Intent(Menu.this,Feedback.class);
                startActivity(u);
                finish();
            }
        });

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                GoogleSignInClient googleSignInClient =
GoogleSignIn.getClient(Menu.this, GoogleSignInOptions.DEFAULT_SIGN_IN);
                googleSignInClient.signOut().addOnCompleteListener(new
OnCompleteListener<Void>() {
                    @Override
                    public void onComplete(Task<Void> task) {
                        if (task.isSuccessful()) {
                            Toast.makeText(Menu.this, "Logout",
Toast.LENGTH_SHORT).show();
                            firebaseAuth.signOut();
                            finish();
                        }
                        Intent i= new Intent(Menu.this,MainActivity.class);
                        startActivity(i);
                        finish();
                    }
                });
            }
        });
    }
}
```

❖ After Click On Browser Icon

activity_browser.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView  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=".Browser">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <WebView
        android:id="@+id/webViewBR"
        android:layout_width="match_parent"
        android:layout_height="391dp"
        android:layout_below="@+id/buttonBR"
        android:layout_alignParentStart="true"
        android:layout_alignParentEnd="true"
        android:layout_marginStart="0dp"
        android:layout_marginTop="16dp"
        android:layout_marginEnd="0dp" >
    </WebView>
    <EditText
        android:id="@+id/editTextBR"
        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="22dp"

android:background="@android:color/holo_orange_dark"
        android:ems="10"
        android:hint="Enter For Search"
        android:inputType="textPersonName"
        android:textSize="20sp" />

    <Button
        android:id="@+id/buttonBR"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editTextBR"
        android:layout_alignParentEnd="true"
        android:layout_marginTop="3dp"
        android:layout_marginEnd="21dp"
        android:backgroundTint="@android:color/holo_blue_bright"
        android:text="Search" />
    <Button
        android:id="@+id/buttonBR2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/webViewBR"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="30dp"
        android:backgroundTint="@color/purple_200"
        android:text="Back to Menu" />
</RelativeLayout>
</ScrollView>
```

Browser.java

```java
package com.example.netcampproject;

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

import androidx.appcompat.app.AppCompatActivity;

public class Browser extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        Button b1,b2;
        WebView wb;
        EditText e1;
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_browser);
        getWindow().setBackgroundDrawableResource(R.drawable.br);
        b1=(Button)findViewById(R.id.buttonBR);
        b2=(Button)findViewById(R.id.buttonBR2);
        e1=(EditText)findViewById(R.id.editTextBR);
        wb=(WebView)findViewById(R.id.webViewBR);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String s1=e1.getText().toString().trim();
                wb.loadUrl(s1);
            }
        });
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i= new Intent(Browser.this,Menu.class);
                startActivity(i);
                finish();
            }
        });
    }
}
```

❖ After Click On Vedio Icon

Activity_camera_vedio.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".CameraVedio">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <Button
        android:id="@+id/buttonCV"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/videoViewCV"
        android:layout_alignParentStart="true"
        android:layout_alignParentEnd="true"
        android:layout_marginTop="45dp"

android:backgroundTint="@android:color/holo_blue_bright"
        android:text="Click Here to Capture Vedio" />

    <Button
        android:id="@+id/buttonCV2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonCV"
        android:layout_alignParentStart="true"
        android:layout_marginTop="30dp"
        android:backgroundTint="@color/purple_200"
        android:text="Back To Menu" />

    <VideoView
        android:id="@+id/videoViewCV"
        android:layout_width="392dp"
        android:layout_height="387dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="10dp"
        android:layout_marginTop="10dp" />
    </RelativeLayout>
</ScrollView>
```
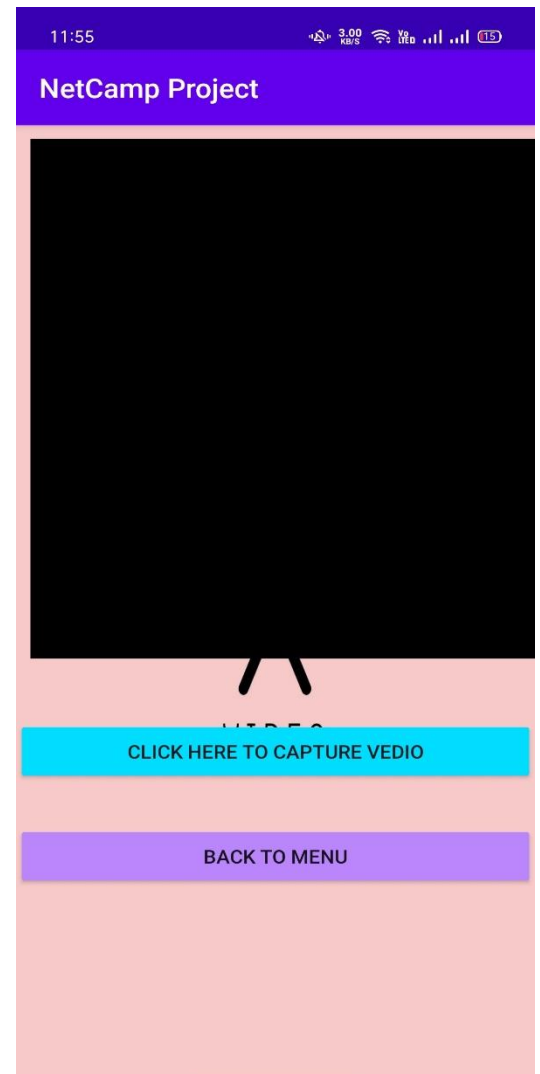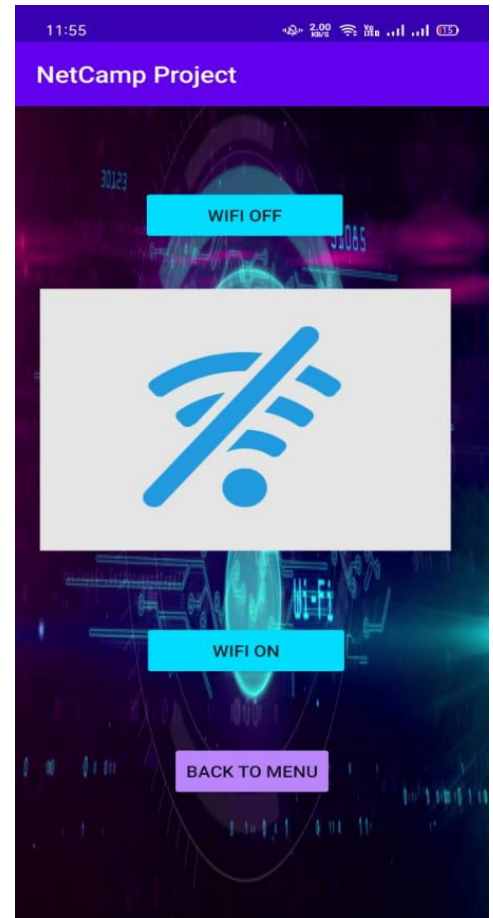
CameraVedio.java

```java
package com.example.netcampproject;

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.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;

public class CameraVedio extends AppCompatActivity {
    Button b1,b2;
    Uri u1;
    MediaController m1;
    VideoView v1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_camera_vedio);
        getWindow().setBackgroundDrawableResource(R.drawable.vi);
        b1=(Button)findViewById(R.id.buttonCV);
        b2=(Button)findViewById(R.id.buttonCV2);
        v1=(VideoView)findViewById(R.id.videoViewCV);
        m1=new MediaController(this);
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                v1.pause();
                Intent i= new Intent(CameraVedio.this,Menu.class);
                startActivity(i);
                finish();
            }
        });
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent j= new Intent(MediaStore.ACTION_VIDEO_CAPTURE);
                startActivityForResult(j,100);
            }
        });
    }

    @Override
    protected void onActivityResult(int requestCode, int resultCode, @Nullable
@org.jetbrains.annotations.Nullable Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        if(requestCode==100){
            u1=data.getData();
            v1.setVideoURI(u1);
            m1.setAnchorView(v1);
            v1.setMediaController(m1);
```

```
            v1.start();
        }else {
            Toast.makeText(this, "Please Capture Vedio", Toast.LENGTH_SHORT).show();
        }
    }
}
```

❖ After Click On Wifi Icon

activity_wifi.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".Wifi">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <Button
        android:id="@+id/buttonW"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="96dp"
        android:layout_marginTop="71dp"
        android:layout_marginEnd="107dp"

android:backgroundTint="@android:color/holo_blue_bright"
        android:text="Wifi Off" />

    <Button
        android:id="@+id/buttonW2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/imageViewW"
        android:layout_alignParentStart="true"
        android:layout_alignParentEnd="true"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="97dp"
        android:layout_marginTop="63dp"
        android:layout_marginEnd="106dp"

android:backgroundTint="@android:color/holo_blue_bright"
        android:text="Wifi ON" />

    <Button
        android:id="@+id/buttonW3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonW2"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="57dp"
        android:backgroundTint="@color/purple_200"
        android:text="Back to Menu" />

    <ImageView
        android:id="@+id/imageViewW"
        android:layout_width="396dp"
        android:layout_height="228dp"
        android:layout_below="@+id/buttonW"
        android:layout_alignParentStart="true"
```

```xml
            android:layout_alignParentEnd="true"
            android:layout_centerHorizontal="true"
            android:layout_marginStart="-5dp"
            android:layout_marginTop="40dp"
            android:layout_marginEnd="5dp"
            app:srcCompat="@drawable/woff" />
    </RelativeLayout>
</ScrollView>
```

Wifi.java

```java
package com.example.netcampproject;

import android.content.Intent;
import android.net.wifi.WifiManager;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;

import androidx.appcompat.app.AppCompatActivity;

public class Wifi extends AppCompatActivity {
    Button b1,b2,b3;
    ImageView i1;
    WifiManager wm;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_wifi);
        getWindow().setBackgroundDrawableResource(R.drawable.wifi);
        b1=(Button)findViewById(R.id.buttonW);
        b2=(Button)findViewById(R.id.buttonW2);
        b3=(Button)findViewById(R.id.buttonW3);
        i1=(ImageView)findViewById(R.id.imageViewW);
        wm=(WifiManager)getApplicationContext().getSystemService(WIFI_SERVICE);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                wm.setWifiEnabled(false);
                i1.setImageResource(R.drawable.woff);
            }
        });
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                wm.setWifiEnabled(true);
                i1.setImageResource(R.drawable.wo);
            }
        });
        b3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i = new Intent(Wifi.this,Menu.class);
                startActivity(i);
                finish();
            }
        });
    }
}
```

❖ After Click On VedioPlayer Icon

activity_vedio.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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="wrap_content"
    android:layout_height="match_parent"
    android:hapticFeedbackEnabled="false"
    tools:context=".Vedio">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <Button
        android:id="@+id/buttonVE3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/videoViewVE"
        android:layout_alignParentStart="true"
        android:layout_marginTop="50dp"
        android:backgroundTint="@color/purple_200"
        android:text="Back to Menu" />

    <VideoView
        android:id="@+id/videoViewVE"
        android:layout_width="386dp"
        android:layout_height="489dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="10dp"
        android:layout_marginTop="10dp"
        android:layout_marginEnd="10dp" />

    </RelativeLayout>
</ScrollView>
```

Vedio.java

```java
package com.example.netcampproject;

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

import androidx.appcompat.app.AppCompatActivity;

public class Vedio extends AppCompatActivity {
    Button b1;
    VideoView v1;
    MediaController m1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_vedio);
        getWindow().setBackgroundDrawableResource(R.drawable.v);
        b1=(Button)findViewById(R.id.buttonVE3);
        v1=(VideoView)findViewById(R.id.videoViewVE);
        m1=new MediaController(this);
        v1.setVideoPath("android.resource://"+getPackageName()+"/"+R.raw.p);
        v1.setMediaController(m1);
        m1.setAnchorView(v1);
        v1.start();
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                v1.pause();
                Intent i = new Intent(Vedio.this,Menu.class);
                startActivity(i);
                finish();
            }
        });
    }
}
```

❖ After Click On Phone Icon

activity_call.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".Call">
    <RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <EditText
        android:id="@+id/editTextP"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginTop="127dp"

android:background="@android:color/holo_orange_dark"
        android:ems="10"
        android:hint="Enter Your Number"
        android:inputType="number"
        android:textSize="20sp" />

    <Button
        android:id="@+id/buttonP"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editTextP"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="158dp"
        android:layout_marginLeft="158dp"
        android:layout_marginTop="105dp"

android:background="@android:color/holo_orange_light"
        android:text="Call" />

    <Button
        android:id="@+id/buttonP2"
        android:layout_width="121dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/buttonP"
        android:layout_alignParentLeft="false"
        android:layout_alignParentTop="false"
        android:layout_alignParentEnd="false"
        android:layout_alignParentRight="false"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="70dp"
        android:background="@color/purple_200"
        android:text="Back to Menu" />
    </RelativeLayout>

</ScrollView>
```
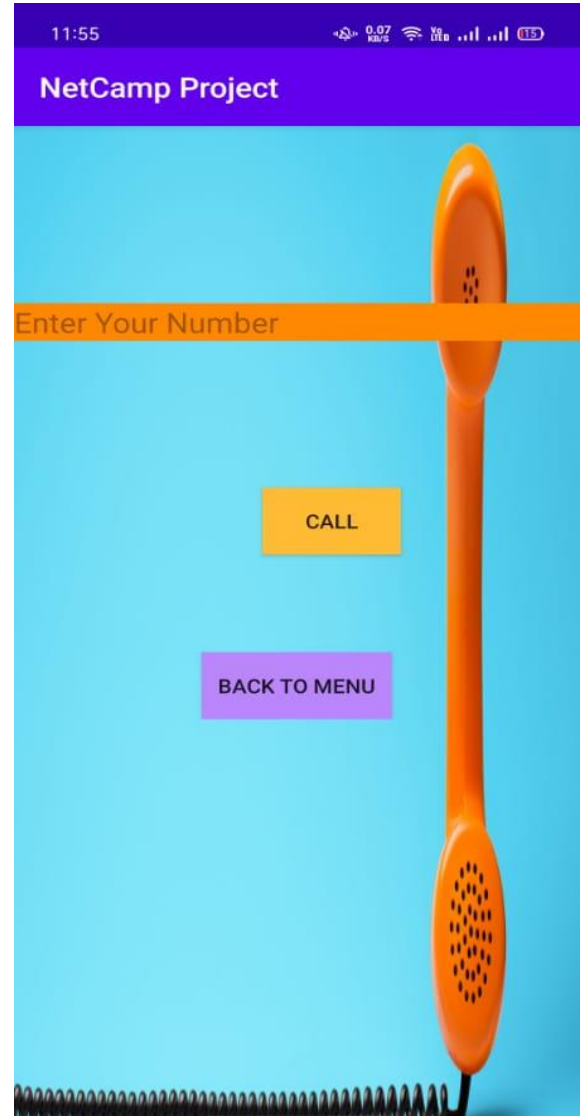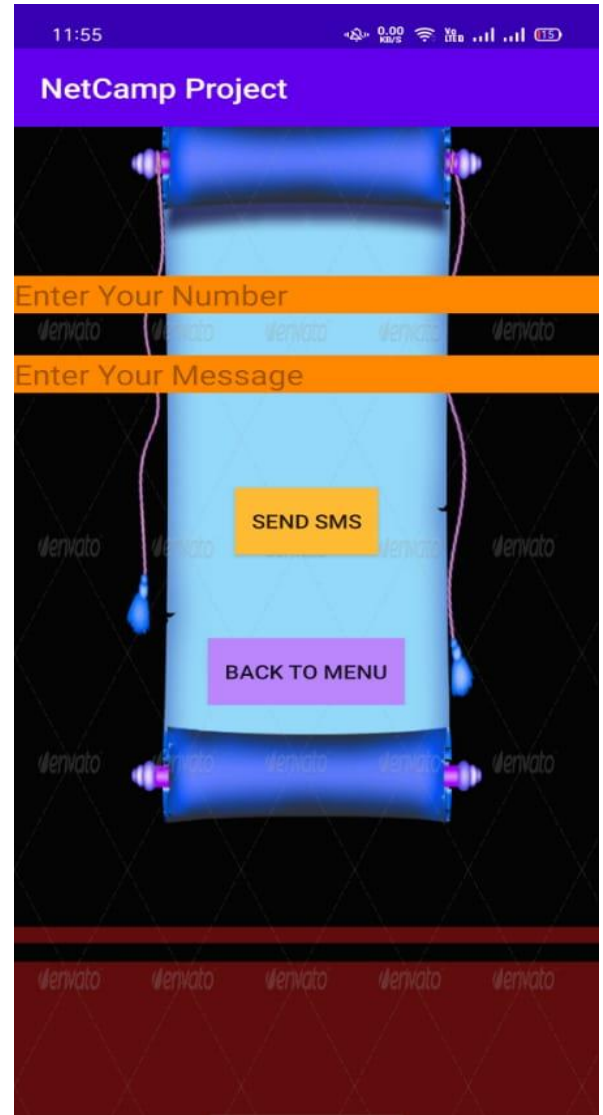
Call.java

```java
` package com.example.netcampproject;

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

import androidx.appcompat.app.AppCompatActivity;

public class Call extends AppCompatActivity {
    EditText e1;
    Button b1,b2;
    String s1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_call);
        getWindow().setBackgroundDrawableResource(R.drawable.call);
        e1=(EditText)findViewById(R.id.editTextP);
        b1=(Button)findViewById(R.id.buttonP);
        b2=(Button)findViewById(R.id.buttonP2);
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i= new Intent(Call.this,Menu.class);
                startActivity(i);
                finish();
            }
        });
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                s1 = e1.getText().toString();
                if(s1.isEmpty()){
                    Toast.makeText(Call.this, "Please Enter Number",
Toast.LENGTH_SHORT).show();
                }else {
                    Intent i = new Intent(Intent.ACTION_DIAL);
                    i.setData(Uri.parse("tel:" + s1));
                    startActivity(i);
                    finish();
                }
            }
        });
    }
}
```

❖ After Click On Message Icon

activity_message.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".Message">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <EditText
        android:id="@+id/editTextME"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentRight="true"
        android:layout_marginTop="107dp"

android:background="@android:color/holo_orange_dark"
        android:ems="10"
        android:hint="Enter Your Number"
        android:inputType="number"
        android:textSize="20sp" />

    <EditText
        android:id="@+id/editTextME2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editTextME"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="false"


        android:layout_marginTop="30dp"

android:background="@android:color/holo_orange_dark"
        android:hint="Enter Your Message"
        android:inputType="textMultiLine"
        android:textSize="20sp" />

    <Button
        android:id="@+id/buttonME"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editTextME2"
        android:layout_centerHorizontal="true"
        android:layout_marginLeft="95dp"
        android:layout_marginTop="68dp"
        android:background="@android:color/holo_orange_light"
        android:text="Send SMS" />

    <Button
        android:id="@+id/buttonME2"
        android:layout_width="121dp"
        android:layout_height="wrap_content"
```

```xml
            android:layout_below="@+id/buttonME"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="60dp"
            android:background="@color/purple_200"
            android:text="Back to Menu" />
    </RelativeLayout>

</ScrollView>
```

Message.java

```java
package com.example.netcampproject;

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

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

public class Message extends AppCompatActivity {
    Button b1,b2;
    EditText e1,e2;
    String phoneNo;
    String message;
    private static final int PERMISSION_RQST_SEND = 0;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_message);
        getWindow().setBackgroundDrawableResource(R.drawable.m);
        b1=(Button)findViewById(R.id.buttonME);
        b2=(Button)findViewById(R.id.buttonME2);
        e1=(EditText)findViewById(R.id.editTextME);
        e2=(EditText)findViewById(R.id.editTextME2);
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i= new Intent(Message.this,Menu.class);
                startActivity(i);
                finish();
            }
        });
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                sendSMSMessage();
            }
        });
    }
    protected void sendSMSMessage() {
        phoneNo = e1.getText().toString();
        message = e2.getText().toString();

        if (ContextCompat.checkSelfPermission(this, Manifest.permission.SEND_SMS)
!= PackageManager.PERMISSION_GRANTED) {
            if (ActivityCompat.shouldShowRequestPermissionRationale(Message.this,
Manifest.permission.SEND_SMS)) {
            } else {
                ActivityCompat.requestPermissions(this, new
String[]{Manifest.permission.SEND_SMS}, PERMISSION_RQST_SEND);
            }
        }else{
```

```java
                    ActivityCompat.requestPermissions(this, new
String[]{Manifest.permission.SEND_SMS}, PERMISSION_RQST_SEND);
            }
        }
        @Override
        public void onRequestPermissionsResult(int requestCode, String permissions[],
int[] grantResults) {
            super.onRequestPermissionsResult(requestCode, permissions, grantResults);
            switch (requestCode) {
                case PERMISSION_RQST_SEND: {
                    if (grantResults.length > 0 && grantResults[0] ==
PackageManager.PERMISSION_GRANTED) {
                        SmsManager sm = SmsManager.getDefault();
                        sm.sendTextMessage(phoneNo, null, message, null, null);
                        Toast.makeText(getApplicationContext(), "SMS sent.",
Toast.LENGTH_LONG).show();
                    } else {
                        Toast.makeText(getApplicationContext(), "SMS failed, you may
try again later.", Toast.LENGTH_LONG).show();
                        return;
                    }
                }
            }
        }
    }
```

❖ **After Click On Feedback Icon**

activity_feedback.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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=".Feedback">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <EditText
        android:id="@+id/editTextF"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_marginTop="65dp"

android:background="@android:color/holo_green_light"
        android:ems="10"
        android:hint="Enter Your Name"
        android:inputType="textPersonName"
        android:textSize="20sp" />

    <EditText
        android:id="@+id/editTextF2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editTextF"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentEnd="true"
        android:layout_marginTop="10dp"
        android:layout_marginEnd="0dp"

android:background="@android:color/holo_green_light"
        android:ems="10"
        android:hint="Enter Your password"
        android:inputType="textPassword"
        android:textSize="20sp" />

    <EditText
        android:id="@+id/editTextF3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editTextF2"
        android:layout_alignParentStart="true"
        android:layout_marginTop="10dp"
        android:background="@android:color/holo_green_light"
        android:ems="10"
        android:hint="Enter Your Email ID"
        android:inputType="textPersonName"
```

```xml
            android:textSize="20sp" />

        <EditText
            android:id="@+id/editTextF4"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_below="@+id/editTextF3"
            android:layout_alignParentStart="true"
            android:layout_alignParentLeft="true"
            android:layout_alignParentEnd="true"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="10dp"
            android:layout_marginEnd="0dp"
            android:background="@android:color/holo_green_light"
            android:ems="10"
            android:hint="Enter Your Phone Number"
            android:inputType="textPersonName"
            android:textSize="20sp" />

        <Button
            android:id="@+id/buttonF"
            android:layout_width="130dp"
            android:layout_height="wrap_content"
            android:layout_below="@+id/editTextF5"
            android:layout_alignParentStart="true"
            android:layout_marginStart="124dp"
            android:layout_marginTop="50dp"
            android:background="@android:color/holo_red_light"
            android:text="Save Feedback" />

        <EditText
            android:id="@+id/editTextF5"
            android:layout_width="match_parent"
            android:layout_height="109dp"
            android:layout_below="@+id/editTextF4"
            android:layout_alignParentStart="true"
            android:layout_marginTop="20dp"
            android:background="@android:color/holo_blue_bright"
            android:ems="10"
            android:hint="Enter Your Feedback here"
            android:inputType="textMultiLine"
            android:textSize="20sp" />

        <Button
            android:id="@+id/buttonF2"
            android:layout_width="119dp"
            android:layout_height="wrap_content"
            android:layout_below="@+id/buttonF"
            android:layout_alignParentStart="true"
            android:layout_centerHorizontal="true"
            android:layout_marginStart="135dp"
            android:layout_marginTop="46dp"
            android:background="@color/purple_200"
            android:text="Back to Menu" />
    </RelativeLayout>

</ScrollView>
```

Feedback.java

```java
package com.example.netcampproject;

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.appcompat.app.AppCompatActivity;

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

public class Feedback extends AppCompatActivity {

    EditText e1,e2,e3,e4,e5;
    Button b1,b2;
    FirebaseDatabase fd;
    DatabaseReference dr;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_feedback);
        getWindow().setBackgroundDrawableResource(R.drawable.fe);
        e1=(EditText)findViewById(R.id.editTextF);
        e2=(EditText)findViewById(R.id.editTextF2);
        e3=(EditText)findViewById(R.id.editTextF3);
        e4=(EditText)findViewById(R.id.editTextF4);
        e5=(EditText)findViewById(R.id.editTextF5);
        b1=(Button)findViewById(R.id.buttonF);
        b2=(Button)findViewById(R.id.buttonF2);
        fd=FirebaseDatabase.getInstance();

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                dr= fd.getReference("users");
                String s1=e1.getText().toString();
                String s2=e2.getText().toString();
                String s3=e3.getText().toString();
                String s4=e4.getText().toString();
                String s5=e5.getText().toString();
                if(s4.length()!=10){
                    Toast.makeText(Feedback.this, "Invalid Number",
Toast.LENGTH_SHORT).show();
                }else{
                    users users=new users(s1,s2,s3,s4,s5);
                    dr.child(s4).setValue(users);
                    Toast.makeText(Feedback.this, "Database Save",
Toast.LENGTH_SHORT).show();
                }
            }
        });
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
```

```java
                Intent i= new Intent(Feedback.this,Menu.class);
                startActivity(i);
                finish();
            }
        });


    }
}
```

❖ After Click On Logout Button

<u>Menu.java (For Logout Button)</u>

```java
package com.example.netcampproject;

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 android.widget.ImageButton;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import com.google.android.gms.auth.api.signin.GoogleSignIn;
import com.google.android.gms.auth.api.signin.GoogleSignInClient;
import com.google.android.gms.auth.api.signin.GoogleSignInOptions;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.FirebaseAuth;

public class Menu extends AppCompatActivity {
    ImageButton i1,i2,i3,i4,i5,i6,i7,i8,i9,i10,i11,i12,i13;
    Button b1;
    Vibrator v1;
    FirebaseAuth firebaseAuth;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_menu);
        getWindow().setBackgroundDrawableResource(R.drawable.fr);
        firebaseAuth=FirebaseAuth.getInstance();
        i1=(ImageButton)findViewById(R.id.imageButtonM);
        i2=(ImageButton)findViewById(R.id.imageButtonM2);
        i3=(ImageButton)findViewById(R.id.imageButtonM3);
        i4=(ImageButton)findViewById(R.id.imageButtonM4);
        i5=(ImageButton)findViewById(R.id.imageButtonM5);
        i6=(ImageButton)findViewById(R.id.imageButtonM6);
        i7=(ImageButton)findViewById(R.id.imageButtonM7);
        i8=(ImageButton)findViewById(R.id.imageButtonM8);
        i9=(ImageButton)findViewById(R.id.imageButtonM9);
        i10=(ImageButton)findViewById(R.id.imageButtonM10);
        i11=(ImageButton)findViewById(R.id.imageButtonM11);
        i12=(ImageButton)findViewById(R.id.imageButtonM12);
        i13=(ImageButton)findViewById(R.id.imageButtonM13);
        b1=(Button)findViewById(R.id.buttonLogout);


        i1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i= new Intent(Menu.this,Calci.class);
                startActivity(i);
                finish();
            }
        });
        i2.setOnClickListener(new View.OnClickListener() {
```

```java
        @Override
        public void onClick(View v) {
            Intent j= new Intent(Menu.this,Torch.class);
            startActivity(j);
            finish();
        }
    });
    i3.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent k= new Intent(Menu.this,Bluetooth.class);
            startActivity(k);
            finish();
        }
    });
    i4.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent l=new Intent(Menu.this,Camera.class);
            startActivity(l);
            finish();
        }
    });
    i5.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent m= new Intent(Menu.this,Music.class);
            startActivity(m);
            finish();
        }
    });
    i6.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            v1 = (Vibrator) getSystemService(VIBRATOR_SERVICE);
            if (Build.VERSION.SDK_INT > 26) {
                v1.vibrate(500);
            } else {
                v1.vibrate(50);
            }
        }
    });
    i7.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent o= new Intent(Menu.this,Browser.class);
            startActivity(o);
            finish();
        }
    });
    i8.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent p=new Intent(Menu.this,Vedio.class);
            startActivity(p);
            finish();
        }
    });
    i9.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent q= new Intent(Menu.this,Wifi.class);
            startActivity(q);
```

```java
                    finish();
                }
        });
        i10.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent r=new Intent(Menu.this,CameraVedio.class);
                startActivity(r);
                finish();
            }
        });
        i11.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent s=new Intent(Menu.this,Call.class);
                startActivity(s);
                finish();
            }
        });
        i12.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent t=new Intent(Menu.this,Message.class);
                startActivity(t);
                finish();
            }
        });

        i13.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent u=new Intent(Menu.this,Feedback.class);
                startActivity(u);
                finish();
            }
        });

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                GoogleSignInClient googleSignInClient =
GoogleSignIn.getClient(Menu.this, GoogleSignInOptions.DEFAULT_SIGN_IN);
                googleSignInClient.signOut().addOnCompleteListener(new
OnCompleteListener<Void>() {
                    @Override
                    public void onComplete(Task<Void> task) {
                        if (task.isSuccessful()) {
                            Toast.makeText(Menu.this, "Logout",
Toast.LENGTH_SHORT).show();
                            firebaseAuth.signOut();
                            finish();
                        }
                        Intent i= new Intent(Menu.this,MainActivity.class);
                        startActivity(i);
                        finish();
                    }
                });
            }
        });
    }
}
```

Firebase Window

Realtime Database

AndroidManifest.xml

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

    <uses-permission android:name="android.permission.BLUETOOTH_ADMIN" />
    <uses-permission android:name="android.permission.INTERNET" />
    <uses-permission android:name="android.permission.BLUETOOTH" />
    <uses-permission android:name="android.permission.BLUETOOTH_ADMIN" />
    <uses-permission android:name="android.permission.VIBRATE" />
    <uses-permission android:name="android.permission.CHANGE_WIFI_STATE" />
    <uses-permission android:name="android.permission.ACCESS_WIFI_STATE" />
    <uses-permission android:name="android.permission.CALL_PHONE" />
    <uses-permission android:name="android.permission.RECEIVE_SMS" />
    <uses-permission android:name="android.permission.SEND_SMS" />

    <application
        android:allowBackup="true"
        android:icon="@drawable/p"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.NetCampProject">
        <activity android:name=".Feedback"></activity>
        <activity android:name=".Message" />
        <activity
            android:name=".Call"
            android:screenOrientation="portrait" />
        <activity
            android:name=".CameraVedio"
            android:screenOrientation="portrait" />
        <activity
            android:name=".Wifi"
            android:screenOrientation="portrait" />
        <activity
            android:name=".Vedio"
            android:screenOrientation="portrait" />
        <activity
            android:name=".Browser"
            android:screenOrientation="portrait" />
        <activity
            android:name=".Music"
            android:screenOrientation="portrait" />
        <activity
            android:name=".Camera"
            android:screenOrientation="portrait" />
        <activity
            android:name=".Bluetooth"
            android:screenOrientation="portrait" />
        <activity
            android:name=".Torch"
            android:screenOrientation="portrait" />
        <activity
            android:name=".Calci"
            android:screenOrientation="portrait" />
        <activity
            android:name=".Normal"
            android:screenOrientation="portrait" />
        <activity
            android:name=".Otp"
```

```xml
                android:screenOrientation="portrait" />
        <activity
            android:name=".Menu"
            android:screenOrientation="portrait" />
        <activity
            android:name=".LoginOffline"
            android:screenOrientation="portrait" />
        <activity
            android:name=".Offline"
            android:screenOrientation="portrait" />
        <activity
            android:name=".GmailLogin"
            android:screenOrientation="portrait" />
        <activity
            android:name=".NormalLogin"
            android:screenOrientation="portrait" />
        <activity
            android:name=".OtpLogin"
            android:screenOrientation="portrait" />
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

</manifest>
```

build.gradle (Project : NetCamp_Project)

```gradle
// Top-level build file where you can add configuration options common to all sub-
projects/modules.
buildscript {
    repositories {
        google()
        mavenCentral()
    }
    dependencies {
        classpath "com.android.tools.build:gradle:4.2.2"
        classpath 'com.google.gms:google-services:4.3.8'
        // NOTE: Do not place your application dependencies here; they belong
        // in the individual module build.gradle files
    }

}

allprojects {
    repositories {
        google()
        mavenCentral()
        jcenter() // Warning: this repository is going to shut down soon
    }
}

task clean(type: Delete) {
    delete rootProject.buildDir
}
```

Build.gradle (Module : NetCamp_Project.app)

```gradle
plugins {
    id 'com.android.application'
}

android {
    compileSdkVersion 30
    buildToolsVersion "30.0.3"

    defaultConfig {
        applicationId "com.example.netcampproject"
        minSdkVersion 23
        targetSdkVersion 28
        versionCode 1
        versionName "1.0"

        testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"
    }

    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'),
'proguard-rules.pro'
        }
    }
    compileOptions {
        sourceCompatibility JavaVersion.VERSION_1_8
        targetCompatibility JavaVersion.VERSION_1_8
    }
    buildFeatures {
        viewBinding true
    }
}

dependencies {

    implementation 'androidx.appcompat:appcompat:1.3.0'
    implementation 'com.google.android.material:material:1.4.0'
    implementation 'androidx.constraintlayout:constraintlayout:2.0.4'
    implementation 'androidx.navigation:navigation-fragment:2.3.5'
    implementation 'androidx.navigation:navigation-ui:2.3.5'
    implementation 'com.google.firebase:firebase-auth:21.0.1'
    implementation 'com.google.firebase:firebase-database:20.0.0'
    testImplementation 'junit:junit:4.+'
    implementation platform('com.google.firebase:firebase-bom:28.3.0')
    implementation 'com.google.firebase:firebase-analytics'
    androidTestImplementation 'androidx.test.ext:junit:1.1.3'
    androidTestImplementation 'androidx.test.espresso:espresso-core:3.4.0'
}
dependencies {


    implementation 'com.google.android.gms:play-services-auth:19.2.0'
    implementation 'com.github.bumptech.glide:glide:4.12.0'
    implementation 'org.jetbrains:annotations:15.0'
    implementation 'com.hbb20:ccp:2.5.3'
}
apply plugin: 'com.google.gms.google-services'
```