**SignUp Program**

**MainActivity.java**

package com.example.signup\_login;

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.activity.EdgeToEdge;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.graphics.Insets;

import androidx.core.view.ViewCompat;

import androidx.core.view.WindowInsetsCompat;

public class MainActivity extends AppCompatActivity {

private DBHelper dbHelper;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

EdgeToEdge.enable(this);

setContentView(R.layout.activity\_main);

EditText e1 = findViewById(R.id.euserId);

EditText e2 = findViewById(R.id.epass);

Button b = findViewById(R.id.sign);

TextView tv = findViewById(R.id.tlogin);

dbHelper = new DBHelper(MainActivity.this);

b.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String addEmial = e1.getText().toString();

String addPassword = e2.getText().toString();

if (addEmial.isEmpty() && addPassword.isEmpty()) {

Toast.makeText(getApplicationContext(), "Please fill all the details", Toast.LENGTH\_LONG).show();

} else {

dbHelper.addNewUser(addEmial, addPassword);

Toast.makeText(MainActivity.this, "Registered successfully", Toast.LENGTH\_SHORT).show();

e1.setText("");

e2.setText("");

Intent i = new Intent(getApplicationContext(), login.class);

startActivity(i);

}

}

});

tv.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent i = new Intent(getApplicationContext(),login.class);

startActivity(i);

}

});

}

}

**MainActivity.xml**

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

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:id="@+id/main"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<TextView

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Signup"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.092" />

<EditText

android:id="@+id/euserId"

android:layout\_width="229dp"

android:layout\_height="49dp"

android:ems="10"

android:hint="E-mail"

android:inputType="text"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.497"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.262" />

<EditText

android:id="@+id/epass"

android:layout\_width="238dp"

android:layout\_height="52dp"

android:ems="10"

android:hint="Password"

android:inputType="text"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.497"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.411" />

<Button

android:id="@+id/sign"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Sign Up"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.59" />

<TextView

android:id="@+id/tlogin"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Already have an acount? login "

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.545"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.695" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Activitylogin.xml**

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

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:id="@+id/main"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".login">

<TextView

android:id="@+id/Login"

android:layout\_width="83dp"

android:layout\_height="24dp"

android:text=" Login Page"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.497"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.151" />

<EditText

android:id="@+id/eUID"

android:layout\_width="236dp"

android:layout\_height="58dp"

android:ems="10"

android:hint="Email"

android:inputType="text"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.467"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.265" />

<EditText

android:id="@+id/ePass"

android:layout\_width="225dp"

android:layout\_height="61dp"

android:ems="10"

android:hint="Password"

android:inputType="textPassword"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.467"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.396" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Login"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.569" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Login.java**

package com.example.signup\_login;

import android.content.Intent;

import android.database.Cursor;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import androidx.activity.EdgeToEdge;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.graphics.Insets;

import androidx.core.view.ViewCompat;

import androidx.core.view.WindowInsetsCompat;

public class login extends AppCompatActivity {

private DBHelper dbhelper;

String userID;

String userpassword;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

EdgeToEdge.enable(this);

setContentView(R.layout.activity\_login);

EditText Email = findViewById(R.id.eUID);

EditText Pass = findViewById(R.id.ePass);

Button b =findViewById(R.id.button);

dbhelper =new DBHelper(login.this);

b.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String addEmail = Email.getText().toString();

String addPass = Pass.getText().toString();

Cursor c = dbhelper.displayDetails(addEmail);

while (c.moveToNext()) {

userID = c.getString(1);

userpassword = c.getString(2);

}

if (userID.equals(addEmail) && userpassword.equals(addPass))

{

Intent i = new Intent(getApplicationContext(),Home.class);

startActivity(i);

}

else {

Toast.makeText(getApplicationContext(), "Login Fail", Toast.LENGTH\_LONG).show();

}

}

});

}

}

**Activity\_home.xml**

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

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:id="@+id/main"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".Home">

<TextView

android:id="@+id/textInfo"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="TextView"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.439"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.185" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Home.java**

package com.example.signup\_login;

import android.os.Bundle;

import android.widget.TextView;

import androidx.activity.EdgeToEdge;

import androidx.appcompat.app.AppCompatActivity;

public class Home extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

EdgeToEdge.enable(this);

setContentView(R.layout.activity\_home);

TextView t1 = findViewById(R.id.textInfo);

String text = "Login successfull";

t1.setText(text);

}

}

**DBHelper.java**

package com.example.signup\_login;

import android.content.ContentValues;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

public class DBHelper extends SQLiteOpenHelper {

private static final String DB\_NAME = "UserDatabase";

private static final int DB\_VERSION = 1;

private static final String TABLE\_NAME = "User\_info";

private static final String email = "Email";

private static final String password = "Password";

public DBHelper(Context context) {

super(context, DB\_NAME, null, DB\_VERSION);

}

@Override

public void onCreate(SQLiteDatabase db) {

String query = "create table User\_info(ID integer primary key AUTOINCREMENT, Email text, Password text)";

db.execSQL(query);

}

public void addNewUser(String addEmail, String addPassword) {

SQLiteDatabase db = this.getWritableDatabase();

ContentValues values = new ContentValues();

values.put(email, addEmail);

values.put(password, addPassword);

db.insert(TABLE\_NAME, null, values);

db.close();

}

public Cursor displayDetails(String addEmail)

{

SQLiteDatabase db = this.getReadableDatabase();

return db.rawQuery("SELECT \* FROM User\_info WHERE Email = ?", new String[] {addEmail});

}

@Override

public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {

db.execSQL("DROP TABLE IF EXISTS " + TABLE\_NAME);

onCreate(db);

}

}

**AndroidManifest.xml**

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

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools" >

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.Signup\_login"

tools:targetApi="31" >

<activity

android:name=".Home"

android:exported="false" />

<activity

android:name=".login"

android:exported="false" />

<activity

android:name=".MainActivity"

android:exported="true" >

<intent-filter>

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

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

</intent-filter>

</activity>

</application>

</manifest>

**Output**:

 

 