**🡨MainActivity.java🡪**

package com.example.loginapp;  
  
import android.content.\*;  
import android.os.Bundle;  
import android.widget.\*;  
import androidx.appcompat.app.AppCompatActivity;  
public class MainActivity extends AppCompatActivity {  
  
 EditText username, password;  
 Button login, register;  
 DBHelper DB;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 username = findViewById(R.id.*username*);  
 password = findViewById(R.id.*password*);  
 login = findViewById(R.id.*login*);  
 register = findViewById(R.id.*register*);  
 DB = new DBHelper(this);  
  
 login.setOnClickListener(v -> {  
 String user = username.getText().toString();  
 String pass = password.getText().toString();  
  
 if (user.equals("") || pass.equals("")) {  
 Toast.*makeText*(MainActivity.this, "All fields required", Toast.*LENGTH\_SHORT*).show();  
 } else {  
 Boolean checkuserpass = DB.checkUsernamePassword(user, pass);  
 if (checkuserpass) {  
 Toast.*makeText*(MainActivity.this, "Login Successful", Toast.*LENGTH\_SHORT*).show();  
 } else {  
 Toast.*makeText*(MainActivity.this, "Invalid Credentials", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 });  
  
 register.setOnClickListener(v -> {  
 Intent intent = new Intent(getApplicationContext(), RegisterActivity.class);  
 startActivity(intent);  
 });  
 }  
}

**java/com.example.your\_project/RegisterActivity.java**

**🡨RegisterActivity.java🡪**

package com.example.loginapp;  
  
import android.content.\*;  
import android.os.Bundle;  
import android.widget.\*;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class RegisterActivity extends AppCompatActivity {  
  
 EditText username, password;  
 Button register;  
 DBHelper DB;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_register*);  
  
 username = findViewById(R.id.*username*);  
 password = findViewById(R.id.*password*);  
 register = findViewById(R.id.*register*);  
 DB = new DBHelper(this);  
  
 register.setOnClickListener(v -> {  
 String user = username.getText().toString();  
 String pass = password.getText().toString();  
  
 if (user.equals("") || pass.equals("")) {  
 Toast.*makeText*(RegisterActivity.this, "All fields required", Toast.*LENGTH\_SHORT*).show();  
 } else {  
 Boolean checkUser = DB.checkUsername(user);  
 if (!checkUser) {  
 Boolean insert = DB.insertData(user, pass);  
 if (insert) {  
 Toast.*makeText*(RegisterActivity.this, "Registered successfully", Toast.*LENGTH\_SHORT*).show();  
 startActivity(new Intent(getApplicationContext(), MainActivity.class));  
 } else {  
 Toast.*makeText*(RegisterActivity.this, "Registration failed", Toast.*LENGTH\_SHORT*).show();  
 }  
 } else {  
 Toast.*makeText*(RegisterActivity.this, "User already exists", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 });  
 }  
}

**java/com.example.your\_project/DBHelper.java**

**🡨DBHelper.java🡪**

package com.example.loginapp;  
  
import android.content.ContentValues;  
import android.content.Context;  
import android.database.Cursor;  
import android.database.sqlite.\*;  
  
public class DBHelper extends SQLiteOpenHelper {  
  
 public static final String *DBNAME* = "Login.db";  
  
 public DBHelper(Context context) {  
 super(context, *DBNAME*, null, 1);  
 }  
  
 @Override  
 public void onCreate(SQLiteDatabase MyDB) {  
 MyDB.execSQL("CREATE TABLE users(username TEXT PRIMARY KEY, password TEXT)");  
 }  
  
 @Override  
 public void onUpgrade(SQLiteDatabase MyDB, int oldVersion, int newVersion) {  
 MyDB.execSQL("DROP TABLE IF EXISTS users");  
 }  
  
 public Boolean insertData(String username, String password) {  
 SQLiteDatabase MyDB = this.getWritableDatabase();  
 ContentValues contentValues = new ContentValues();  
 contentValues.put("username", username);  
 contentValues.put("password", password);  
 long result = MyDB.insert("users", null, contentValues);  
 return result != -1;  
 }  
  
 public Boolean checkUsername(String username) {  
 SQLiteDatabase MyDB = this.getReadableDatabase();  
 Cursor cursor = MyDB.rawQuery("SELECT \* FROM users WHERE username = ?", new String[]{username});  
 return cursor.getCount() > 0;  
 }  
  
 public Boolean checkUsernamePassword(String username, String password) {  
 SQLiteDatabase MyDB = this.getReadableDatabase();  
 Cursor cursor = MyDB.rawQuery("SELECT \* FROM users WHERE username = ? AND password = ?", new String[]{username, password});  
 return cursor.getCount() > 0;  
 }  
}

**🡨activity\_main.xml🡪**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:orientation="vertical" android:padding="20dp"  
 android:layout\_width="match\_parent" android:layout\_height="match\_parent">  
  
 <EditText android:id="@+id/username" android:hint="Username"  
 android:layout\_width="match\_parent" android:layout\_height="wrap\_content"/>  
  
 <EditText android:id="@+id/password" android:hint="Password"  
 android:inputType="textPassword"  
 android:layout\_width="match\_parent" android:layout\_height="wrap\_content"/>  
  
 <Button android:id="@+id/login" android:text="Login"  
 android:layout\_width="match\_parent" android:layout\_height="wrap\_content"/>  
  
 <Button android:id="@+id/register" android:text="Register"  
 android:layout\_width="match\_parent" android:layout\_height="wrap\_content"/>  
  
</LinearLayout>

**res/layout/activity\_register.xml**

**🡨activity\_register.xml🡪**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:orientation="vertical" android:padding="20dp"  
 android:layout\_width="match\_parent" android:layout\_height="match\_parent">  
  
 <EditText android:id="@+id/username" android:hint="New Username"  
 android:layout\_width="match\_parent" android:layout\_height="wrap\_content"/>  
  
 <EditText android:id="@+id/password" android:hint="New Password"  
 android:inputType="textPassword"  
 android:layout\_width="match\_parent" android:layout\_height="wrap\_content"/>  
  
 <Button android:id="@+id/register" android:text="Register"  
 android:layout\_width="match\_parent" android:layout\_height="wrap\_content"/>  
</LinearLayout>