SQLite Database App: Login Application

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HAD LAB

Activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">


    <EditText
        android:id="@+id/uname"
        android:layout_width="match_parent"
        android:layout_height="72dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Name" />

    <EditText
        android:id="@+id/upass"
        android:layout_width="match_parent"
        android:layout_height="67dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="password" />

    <Button
        android:id="@+id/login"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="login" />

    <Button
```

```xml
        android:id="@+id/register"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="register" />

    <Button
        android:id="@+id/delete"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="delete" />

    <Button
        android:id="@+id/update"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="update" />

    <Button
        android:id="@+id/display"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="display" />

    <TextView
        android:id="@+id/res"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="TextView" />

</LinearLayout>
```

MainActivity.java

package com.example.dbhelper1;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    Button register,update,delete,display,login;

    EditText uname,upass;

    TextView res;

    private static final String *dbName*="studentdb";

    private static final String *tbName*="student";

    private static final int *dbVersion* = 1;

    dbhelper mydbhelper;

    @SuppressLint("MissingInflatedId")

    @Override

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

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);

    setContentView(R.layout.activity_main);

    register=findViewById(R.id.register);

    update=findViewById(R.id.update);

    delete=findViewById(R.id.delete);

    display=findViewById(R.id.display);

    login=findViewById(R.id.login);

    res=findViewById(R.id.res);

    uname=findViewById(R.id.uname);

    upass=findViewById(R.id.upass);

    register.setOnClickListener(new View.OnClickListener() {

        @Override
        public void onClick(View view) {

            mydbhelper=new dbhelper(MainActivity.this,dbName,null,dbVersion);

            long val=mydbhelper.adduser(uname.getText().toString(),upass.getText().toString());

            if(val==-1){

                Toast.makeText(MainActivity.this,"Registered",Toast.LENGTH_SHORT).show();

            }

        }

    });

    update.setOnClickListener(new View.OnClickListener() {

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

```java
        mydbhelper=new dbhelper(MainActivity.this,dbName,null,dbVersion);

        mydbhelper.update(uname.getText().toString(),upass.getText().toString());

      }

    });

    delete.setOnClickListener(new View.OnClickListener() {

      @Override

      public void onClick(View view) {

        mydbhelper=new dbhelper(MainActivity.this,dbName,null,dbVersion);

        mydbhelper.delete(uname.getText().toString());

      }

    });

    display.setOnClickListener(new View.OnClickListener() {

      @Override

      public void onClick(View view) {

        mydbhelper=new dbhelper(MainActivity.this,dbName,null,dbVersion);

        String value=mydbhelper.Display(MainActivity.this);

        res.setText(value);

      }

    });

  }

}
```

dbhelper.java

```java
package com.example.dbhelper1;
```

```java
import android.content.ContentValues;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;


import androidx.annotation.Nullable;


public class dbhelper extends SQLiteOpenHelper {

    private static final String dbName = "studentdb";

    private static final String tbName = "student";

    private static final int dbVersion = 1;

    public dbhelper(@Nullable Context context, @Nullable String name, @Nullable
SQLiteDatabase.CursorFactory factory, int version) {

        super(context, name, factory, version);

    }


    @Override

    public void onCreate(SQLiteDatabase db) {

        db.execSQL("CREATE TABLE " + tbName+ "(uname VARCHAR(10),passw VARCHAR(10))" +
"");



    }
```

```java
    @Override
    public void onUpgrade(SQLiteDatabase db, int prev_v, int new_v) {

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

        onCreate(db);

    }

    public long adduser(String name, String pass) {

        SQLiteDatabase sqLiteDatabase = this.getWritableDatabase();

        ContentValues cv = new ContentValues();

        cv.put("uname", name);

        cv.put("passw ", pass);

        long result = sqLiteDatabase.insert(tbName, null, cv);

        sqLiteDatabase.close();

        return result;

    }

public void  delete(String name){

        SQLiteDatabase sqLiteDatabase=this.getWritableDatabase();

        sqLiteDatabase.execSQL("DELETE FROM " + tbName+ " WHERE uname='" + name + "';");

        sqLiteDatabase.close();



}

public void  update(String name,String pass){

        SQLiteDatabase sqLiteDatabase=this.getWritableDatabase();

        sqLiteDatabase.execSQL("UPDATE " + tbName+ " SET passw='" + pass + "'" + " WHERE
uname='" + name + "';");

        sqLiteDatabase.close();
```
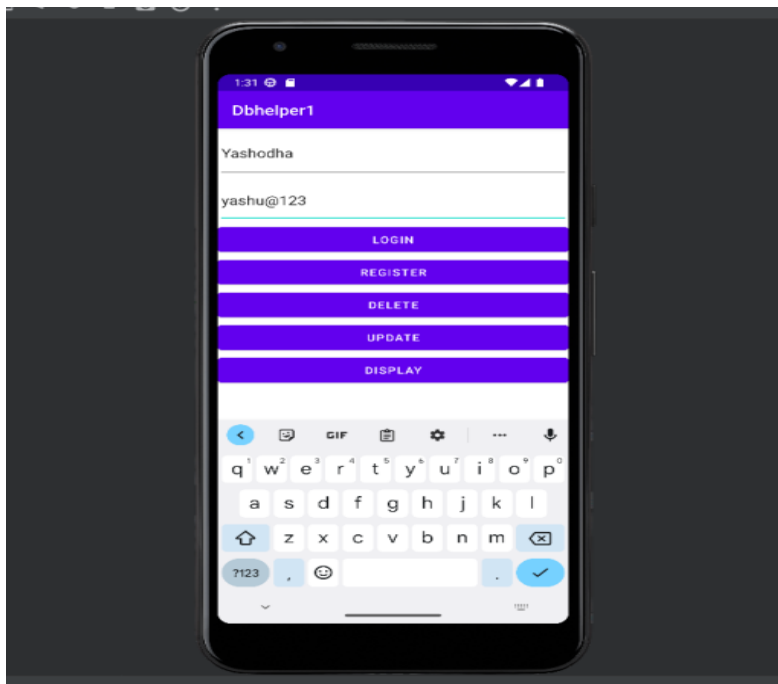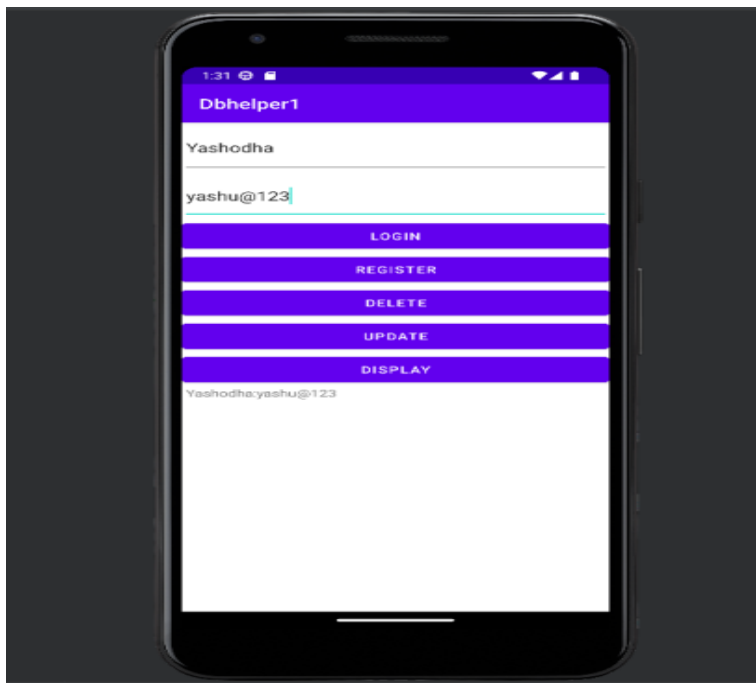
```java
    }
public  String Display(Context ctx){

        SQLiteDatabase sqLiteDatabase=this.getReadableDatabase();

     Cursor cursor=sqLiteDatabase.rawQuery("SELECT * FROM " + tbName, null);

     String finalres=" ";

     while (cursor.moveToNext()){

        finalres+= cursor.getString(0)+":"+ cursor.getString(1);


     }

     return  finalres;

}

}
```
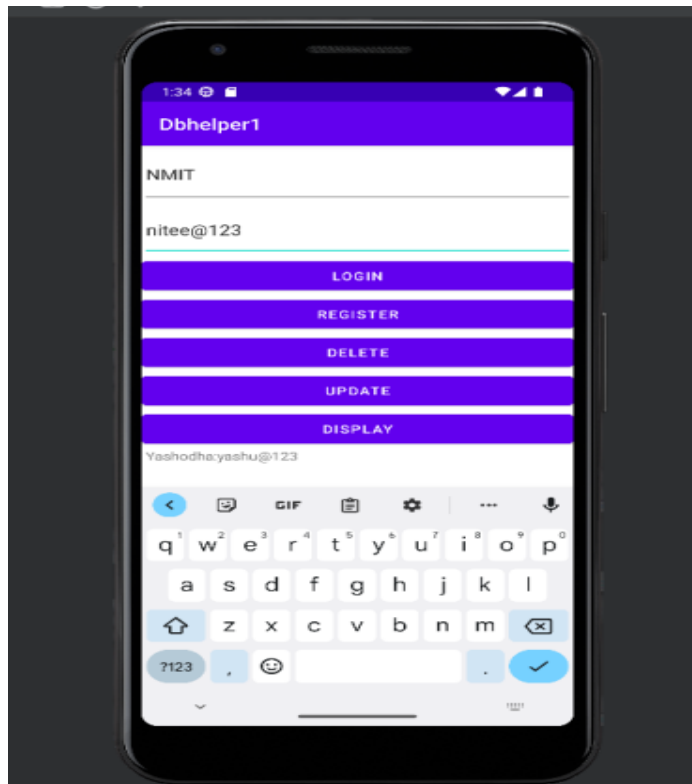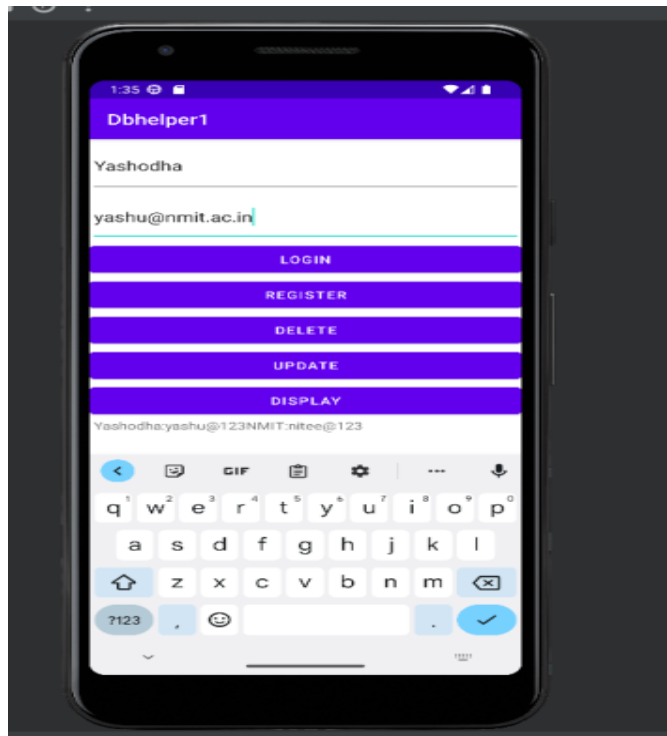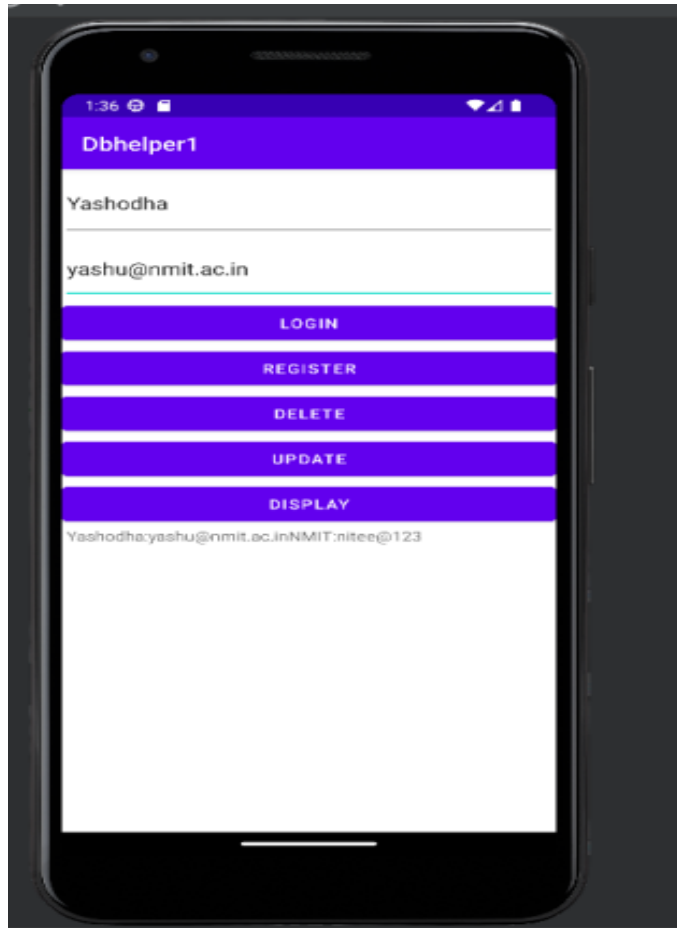
OUTPUT:

Register

Display

Register

Display

Update

Delete