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DBHelper

```java
package com.example.sqlite;

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, dbName, null, dbVersion);
    }

    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL("CREATE TABLE "+tbName+"(uname VARCHAR(10), password
VARCHAR(10))"+";");

    }

    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
        db.execSQL("DROP TABLE IF EXISTS "+tbName);
        onCreate(db);

    }
    public long adduser(String name,String password){

        SQLiteDatabase sqLiteDatabase=this.getWritableDatabase();
        ContentValues cv=new ContentValues();
        cv.put("uname",name);
        cv.put("password",password);
        long result=sqLiteDatabase.insert(tbName,null,cv);
        sqLiteDatabase.close();
        return result;
    }
    public void update(String name, String password){
        SQLiteDatabase sqLiteDatabase=this.getWritableDatabase();
        sqLiteDatabase.execSQL("UPDATE "+tbName+ "SET passw="+password+"
"+"WHERE uname="+name+";");
        sqLiteDatabase.close();
    }
    public void delete(String name){
        SQLiteDatabase sqLiteDatabase=this.getWritableDatabase();
        sqLiteDatabase.execSQL("DELETE FROM"+tbName+" 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;
    }
}
```

delete

```java
package com.example.sqlite;


import androidx.appcompat.app.AppCompatActivity;


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


public class delete extends AppCompatActivity {
    EditText uname;
    Button delete;
    DBHelper dbHelper;
    private static final String dbName="studentdb";
    private static final String tbName="student" ;
    private static final int dbVersion = 1 ;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_delete);
        uname=findViewById(R.id.name);
        delete=findViewById(R.id.del);
        delete.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                dbHelper=new DBHelper(delete.this,dbName,null,dbVersion);
                dbHelper.delete(uname.getText().toString());
                Intent it = new Intent(delete.this, MainActivity.class);
                startActivity(it);
            }
        });
    }
}
```

display

```java
package com.example.sqlite;


import androidx.appcompat.app.AppCompatActivity;


import android.os.Bundle;
import android.widget.TextView;


public class display extends AppCompatActivity {
    TextView text;
    DBHelper dbHelper;
    private static final String tbName="student" ;
    private static final String dbName="studentdb";
    private static final int dbVersion = 1 ;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_display);
        text=findViewById(R.id.text);
        dbHelper=new DBHelper(display.this,dbName,null,dbVersion);
        String out=dbHelper.display(display.this);
        text.setText(out);


    }
}
```

MainActivity

```java
package com.example.sqlite;


import androidx.appcompat.app.AppCompatActivity;


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


public class MainActivity extends AppCompatActivity {
    Button registration, display, update, delete;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        registration=findViewById(R.id.register);
        display=findViewById(R.id.display);
        update=findViewById(R.id.update);
        delete=findViewById(R.id.delete);
        registration.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent it=new Intent(MainActivity.this,registration.class);
```

```java
                startActivity(it);


            }
        });
        display.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent it=new Intent(MainActivity.this,display.class);
                startActivity(it);
            }
        });
        update.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent it=new Intent(MainActivity.this,update.class);
                startActivity(it);
            }
        });
        delete.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent it=new Intent(MainActivity.this,delete.class);
                startActivity(it);
            }
        });
    }
}
```

Registration

```java
package com.example.sqlite;


import androidx.appcompat.app.AppCompatActivity;


import android.content.Intent;
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;


public class registration extends AppCompatActivity {
    EditText uname;
    EditText upass ;
    DBHelper dbHelper;
    Button register;
    private static final String dbName="studentdb";
    private static final String tbName="student" ;
    private static final int dbVersion = 1 ;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_registration);
        uname=findViewById(R.id.uname);
        upass=findViewById(R.id.password);
```

```
        register=findViewById(R.id.submit);
        register.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                dbHelper = new
DBHelper(registration.this,dbName,null,dbVersion);
                long
val=dbHelper.adduser(uname.getText().toString(),upass.getText().toString());
                if(val==-1)
                {
                    Toast.makeText(registration.this, "Error in adding user",
Toast.LENGTH_SHORT).show();
                }
                else {
                    Toast.makeText(registration.this, "USER REGISTERED",
                        Toast.LENGTH_SHORT).show(); //13(f)
                    Intent it = new Intent(registration.this,
MainActivity.class);
                    startActivity(it);
                }


            }
        });
    }
}
```

update

```
package com.example.sqlite;


import androidx.appcompat.app.AppCompatActivity;


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


public class update extends AppCompatActivity {
    EditText uname;
    EditText upass;
    Button update;
    DBHelper dbHelper;
    private static final String dbName="studentdb";
    private static final String tbName="student" ;
    private static final int dbVersion = 1 ;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_update);
        uname=findViewById(R.id.uname);
        upass=findViewById(R.id.password);
        update=findViewById(R.id.update);
        update.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
```

```java
                dbHelper=new DBHelper(update.this,dbName,null,dbVersion);

dbHelper.update(uname.getText().toString(),upass.getText().toString());
                Intent it=new Intent(update.this,MainActivity.class);
                startActivity(it);
            }
        });


    }
}
```

delete.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"
    tools:context=".delete"
    android:orientation="vertical"
    android:layout_margin="20dp"
    android:background="#cb968b">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Delete page"
        android:layout_margin="30dp"
        android:textSize="30dp"
        />
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter a username"
        android:layout_marginTop="30dp"
        android:id="@+id/name"
        android:layout_marginRight="30dp"
        android:layout_marginLeft="30dp"
        android:textSize="20dp"
        />
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Delete"
        android:textSize="20dp"
        android:layout_marginTop="50dp"
        android:id="@+id/del"
        android:layout_marginRight="30dp"
        android:layout_marginLeft="30dp"
        />


</LinearLayout>
```

display.xml

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

```xml
    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=".display"
    android:orientation="vertical"
    android:layout_margin="20dp"
    android:background="#cb968b"
    >
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Display page"
        android:layout_margin="30dp"
        android:textSize="30dp"
        android:id="@+id/text"
        />



</LinearLayout>
```

activitymain.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"
    tools:context=".MainActivity"
    android:orientation="vertical"
    android:layout_margin="20dp"
    android:background="#cb968b"
    >


    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="100dp"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"
        android:text="Register"
        android:textSize="20dp"
        android:fontFamily="sans-serif-black"
        android:id="@+id/register"


        />
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"
        android:text="Display"
        android:textSize="20dp"
        android:fontFamily="sans-serif-black"
```

```xml
        android:id="@+id/display"


        />
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"
        android:text="Update"
        android:textSize="20dp"
        android:fontFamily="sans-serif-black"
        android:id="@+id/update"


        />
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"
        android:text="Delete"
        android:textSize="20dp"
        android:fontFamily="sans-serif-black"
        android:id="@+id/delete"


        />



</LinearLayout>
```

registration.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"
    tools:context=".registration"
    android:orientation="vertical"
    android:layout_margin="20dp"
    android:background="#cb968b">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Registration page"
        android:layout_margin="30dp"
        android:textSize="30dp"
        />


    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter a username"
```

```xml
        android:layout_marginTop="30dp"
        android:id="@+id/uname"
        android:layout_marginRight="30dp"
        android:layout_marginLeft="30dp"
        android:textSize="20dp"
        />
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter a password"
        android:layout_marginTop="30dp"
        android:id="@+id/password"
        android:layout_marginRight="30dp"
        android:layout_marginLeft="30dp"
        android:textSize="20dp"
        />
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="SUBMIT"
        android:textSize="20dp"
        android:layout_marginTop="50dp"
        android:id="@+id/submit"
        android:layout_marginRight="30dp"
        android:layout_marginLeft="30dp"
        />


</LinearLayout>
```

update.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"
    tools:context=".update"
    android:orientation="vertical"
    android:layout_margin="20dp"
    android:background="#cb968b"
    >
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Update page"
        android:layout_margin="30dp"
        android:textSize="30dp"
        />
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter a username"
        android:layout_marginTop="30dp"
        android:id="@+id/uname"
        android:layout_marginRight="30dp"
        android:layout_marginLeft="30dp"
        android:textSize="20dp"
        />
```

```xml
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter a password"
    android:layout_marginTop="30dp"
    android:id="@+id/password"
    android:layout_marginRight="30dp"
    android:layout_marginLeft="30dp"
    android:textSize="20dp"
    />
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="UPDATE"
    android:textSize="20dp"
    android:layout_marginTop="50dp"
    android:id="@+id/update"
    android:layout_marginRight="30dp"
    android:layout_marginLeft="30dp"
    />

</LinearLayout>
```

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REGISTER

DISPLAY

UPDATE