**SQLITE DATABASE**

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**ACTIVITY.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"  
 android:layout\_margin="20dp"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="WELCOME"  
 android:textSize="40dp"  
 android:layout\_margin="20dp"  
 android:textAlignment="center"/>  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/register"  
 android:text="REGISTER"  
 android:layout\_margin="20dp"  
 />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/update"  
 android:text="UPDATE"  
 android:layout\_margin="20dp"  
 />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/delete"  
 android:text="DELETE"  
 android:layout\_margin="20dp"  
 />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/display"  
 android:text="DISPLAY"  
 android:layout\_margin="20dp"  
 />  
</LinearLayout>

**REGISTRATION.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">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Registration Page"  
 android:textSize="30dp"  
 />  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Username"  
 android:id="@+id/uname"  
 />  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Password"  
 android:id="@+id/upass"  
 />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/register"  
 android:text="Register"  
 android:layout\_margin="20dp"  
 />  
  
</LinearLayout>

**DELETE.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\_PAGE"  
 android:orientation="vertical">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Delete Page"  
 android:textSize="30dp"  
 />  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Username"  
 android:id="@+id/uname"  
 />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/delete"  
 android:text="Delete"  
 android:layout\_margin="20dp"  
 />  
  
</LinearLayout>

**UPDATE.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\_PAGE"  
 android:orientation="vertical">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Update Page"  
 android:textSize="30dp"  
 />  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Username"  
 android:id="@+id/uname"  
 />  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Password"  
 android:id="@+id/upass"  
 />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/update"  
 android:text="Update"  
 android:layout\_margin="20dp"  
 />  
  
</LinearLayout>

**DISPLAY.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=".DISPLAY\_PAGE"  
 android:orientation="vertical">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Display Page"  
 android:textSize="30dp"  
 />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/display"  
 android:text="Display"  
 android:layout\_margin="20dp"  
  
 />  
  
</LinearLayout>

**DBHELPER**

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, name, factory, version);  
 }  
  
 @Override  
 public void onCreate(SQLiteDatabase db) {  
 db.execSQL("CREATE TABLE "+*tbName*+"(uname VARCHAR(10),upass 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 pass){  
 SQLiteDatabase sqLiteDatabase = this.getWritableDatabase();  
 ContentValues cv = new ContentValues() ;  
 cv.put("uname", name);  
 cv.put("upass ",pass) ;  
 long result = sqLiteDatabase.insert(*tbName*, null,cv);  
 sqLiteDatabase.close();  
 return result ;  
 }  
  
 public void update(String name, String pass){  
 SQLiteDatabase sqLiteDatabase = this.getWritableDatabase(); //6(a)  
 sqLiteDatabase.execSQL("UPDATE "+*tbName*+" SET passw='"+pass+"'"+" WHERE uname='"+name+"';");  
 sqLiteDatabase.close();  
 }  
  
 public void delete(String name){  
 SQLiteDatabase sqLiteDatabase = this.getWritableDatabase();  
 sqLiteDatabase.execSQL("DELETE FROM "+*tbName*+" WHERE uname='" +name+"';" );  
 sqLiteDatabase.close();  
 }  
  
 public String display(Context ctx){  
 SQLiteDatabase sqLiteDatabase = this.getReadableDatabase(); //8(a)  
 Cursor cursor = sqLiteDatabase.rawQuery("SELECT \* FROM "+*tbName*, null);  
 String finalres = " " ;  
 while(cursor.moveToNext()){  
 finalres += cursor.getString(0)+":"+cursor.getString(1);  
 }  
 return finalres;  
 }  
 }

**MAIN ACTIVITY.XML**

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 register, update, delete, display;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 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*);  
 register.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent it= new Intent(MainActivity.this,REGISTRATION.class);  
 startActivity(it);  
 }  
 });  
 update.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent it=new Intent(MainActivity.this,UPDATE\_PAGE.class);  
 startActivity(it);  
 }  
 });  
 delete.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent it= new Intent(MainActivity.this,DELETE\_PAGE.class);  
 startActivity(it);  
 }  
 });  
 display.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent it=new Intent(MainActivity.this,DISPLAY\_PAGE.class);  
 startActivity(it);  
 }  
 });  
 }  
}

**REGISTRATION.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;  
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.*upass*);  
 register=findViewById(R.id.*register*);  
  
 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.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 UPDATE\_PAGE extends AppCompatActivity {  
 EditText uname,upass;  
 DBHelper dbHelper;  
 Button update;  
 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\_page*);  
 uname=findViewById(R.id.*uname*);  
 upass=findViewById(R.id.*upass*);  
 update=findViewById(R.id.*register*);  
  
 update.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 dbHelper = new DBHelper(UPDATE\_PAGE.this, *dbName*, null, *dbVersion*) ;  
 dbHelper.update(uname.getText().toString(),  
 upass.getText().toString());  
 Intent it = new Intent(UPDATE\_PAGE.this, MainActivity.class);  
 startActivity(it);  
 }  
 });  
 }  
}

**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\_PAGE extends AppCompatActivity {  
 EditText uname;  
 DBHelper dbHelper;  
 Button delete;  
 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\_page*);  
 uname=findViewById(R.id.*uname*);  
 delete=findViewById(R.id.*register*);  
 delete.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 dbHelper = new DBHelper(DELETE\_PAGE.this, *dbName*,null, *dbVersion*) ;  
 dbHelper.delete(uname.getText().toString());  
 Intent it = new Intent(DELETE\_PAGE.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\_PAGE extends AppCompatActivity {  
 TextView text ;  
 DBHelper dbHelper;  
 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\_page*);  
 text = findViewById(R.id.*display*) ;  
 dbHelper = new DBHelper(DISPLAY\_PAGE.this, *dbName*, null, *dbVersion*);  
 String out= dbHelper.display(DISPLAY\_PAGE.this);  
 text.setText(out);  
 }  
}





