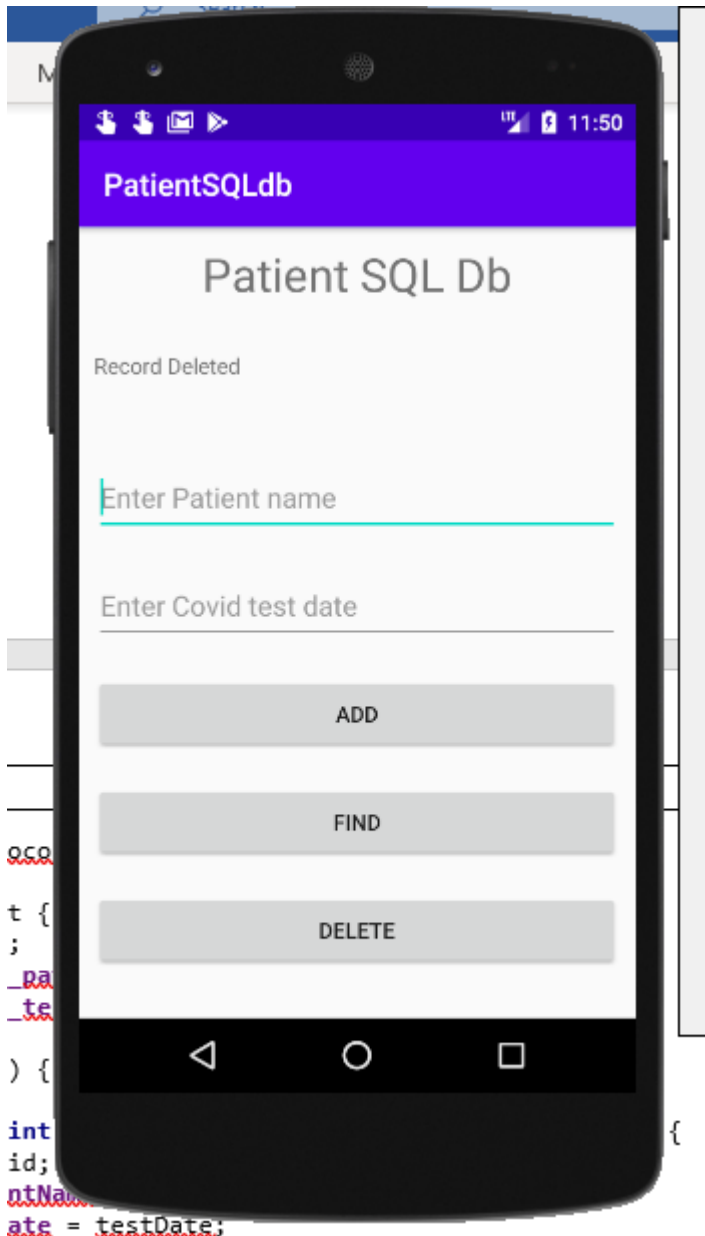


Patient SQL db App



```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help PatientSQLdb (C:\Users\r.oconnor\AndroidStudioProjects\PatientSQLdb) - ...patientsqldb\MyDBHandler.java [app]
PatientSQLdb [app] src / main / java / com / raymundoconnor / patientsqldb / MyDBHandler
package com.raymundoconnor.patientsql;

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 MyDBHandler extends SQLiteOpenHelper {
    // when you type SQLiteOpenHelper as above you must import the onCreate, onUpgrade methods
    private static final int DATABASE_VERSION = 1;
    private static final String DATABASE_NAME = "patientDB.db";
    private static final String TABLE_PATIENTS = "patients";
    public static final String COLUMN_ID = "_id";
    public static final String COLUMN_PATIENTNAME = "patientname";
    public static final String COLUMN_TESTDATE = "testDate";

    public MyDBHandler(@Nullable Context context, @Nullable String name, @Nullable SQLiteDatabase.CursorFactory factory, int version) {
        super(context, DATABASE_NAME, factory, DATABASE_VERSION);
    }

    @Override
    public void onCreate(SQLiteDatabase db) {
        String CREATE_PATIENTS_TABLE = "CREATE TABLE " +
            TABLE_PATIENTS + "(" +
            COLUMN_ID + " INTEGER PRIMARY KEY, " + COLUMN_PATIENTNAME +
            " TEXT, " + COLUMN_TESTDATE + " TEXT " + ")";
    }
}
```

Terminal: Install successfully finished in 1 s 202 ms: App restart successful without requiring a re-install. (31 ms)

11:14 CRLF UTF-8 4 spaces

09/02/2021

Patient Class

```
package com.raymundoconnor.patientsqlldb;

public class Patient {
    private int _id;
    private String _patientName;
    private String _testDate;

    public Patient() {
    }
    public Patient(int id, String patientName, String testDate) {
        this._id = id;
        this._patientName = patientName;
        this._testDate = testDate;
    }
    public Patient(String patientName, String testDate) {
        this._patientName = patientName;
        this._testDate = testDate;
    }
    public void setID(int id) {
        this._id = id;
    }
    public int getID() {
        return this._id;
    }
    public void setPatientName(String patientName) {
        this._patientName = patientName;
    }
    public String getPatientName() {
        return this._patientName;
    }
    public void setTestDate(String testDate) {
        this._testDate = testDate;
    }
    public String getTestDate() {
        return this._testDate;
    }
}
```

MyDBhandler.java

```
package com.raymundoconnor.patientsqldb;

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 MyDBHandler extends SQLiteOpenHelper {
    // when you type SQLiteOpenHelper as above you must import the onCreate, onUpgrade methods
    private static final int DATABASE_VERSION = 1;
    private static final String DATABASE_NAME = "patientDB.db";
    private static final String TABLE_PATIENTS = "patients";
    private static final String COLUMN_ID = "_id";
    private static final String COLUMN_PATIENTNAME = "patientname";
    private static final String COLUMN_TESTDATE = "testDate";

    public MyDBHandler(@Nullable Context context, @Nullable String name, @Nullable
    SQLiteDatabase.CursorFactory factory, int version) {
        super(context, DATABASE_NAME, factory, DATABASE_VERSION);
    }

    @Override
    public void onCreate(SQLiteDatabase db) {
        String CREATE_PATIENTS_TABLE = "CREATE TABLE " +
            TABLE_PATIENTS + "("
            + COLUMN_ID + " INTEGER PRIMARY KEY," + COLUMN_PATIENTNAME
            + " TEXT," + COLUMN_TESTDATE + " TEXT" + ")";
        db.execSQL(CREATE_PATIENTS_TABLE);
    }

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

    public void addPatient(Patient patient) {
        ContentValues values = new ContentValues();
        values.put(COLUMN_PATIENTNAME, patient.getPatientName());
        values.put(COLUMN_TESTDATE, patient.getTestDate());
        SQLiteDatabase db = this.getWritableDatabase();
        db.insert(TABLE_PATIENTS, null, values);
        db.close();
    }

    public Patient findPatient(String patientname) {
        String query = "Select * FROM " + TABLE_PATIENTS + " WHERE " + COLUMN_PATIENTNAME + " =
        \"" + patientname + "\"";
        SQLiteDatabase db = this.getWritableDatabase();
        Cursor cursor = db.rawQuery(query, null);
        Patient patient = new Patient();
        if (cursor.moveToFirst()) {
            cursor.moveToFirst();
            patient.setID(Integer.parseInt(cursor.getString(0)));
            patient.setPatientName(cursor.getString(1));
            patient.setTestDate(cursor.getString(2));
            cursor.close();
        } else {
            patient = null;
        }
    }
}
```

```

        db.close();
        return patient;
    }

    public boolean deletePatient(String patientName) {
        boolean result = false;
        String query = "Select * FROM " + TABLE_PATIENTS + " WHERE " + COLUMN_PATIENTNAME + " =
\"" + patientName + "\"";
        SQLiteDatabase db = this.getWritableDatabase();
        Cursor cursor = db.rawQuery(query, null);
        Patient patient = new Patient();
        if (cursor.moveToFirst()) {
            patient.setID(Integer.parseInt(cursor.getString(0)));
            db.delete(TABLE_PATIENTS, COLUMN_ID + " = ?",
                new String[] { String.valueOf(patient.getID()) });
            cursor.close();
            result = true;
        }
        db.close();
        return result;
    }
}

```

MainActivity.java

```
package com.raymundoconnor.patientsqlldb;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    TextView tvId;
    EditText etPatientName;
    EditText etTestDate;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        tvId =(TextView)findViewById(R.id.textViewID);
        etPatientName=(EditText)findViewById(R.id.editTextPatientName);
        etTestDate=(EditText)findViewById(R.id.editTextDate);
    }

    public void newPatient(View view) {
        MyDBHandler dbHandler = new MyDBHandler(this, null, null, 1);
        String testDate = etTestDate.getText().toString();
        Patient patient = new Patient(etPatientName.getText().toString(), testDate);
        dbHandler.addPatient(patient);
        etPatientName.setText("");
        etTestDate.setText("");
    }

    public void findPatient (View view) {
        MyDBHandler dbHandler = new MyDBHandler(this, null, null, 1);
        Patient patient = dbHandler.findPatient(etPatientName.getText().toString());
        if (patient != null) {
            tvId.setText(String.valueOf(patient.getID()));
            etTestDate.setText(String.valueOf(patient.getTestDate()));
        } else {
            tvId.setText("No Match Found");
        }
    }

    public void deletePatient (View view) {
        MyDBHandler dbHandler = new MyDBHandler(this, null,
            null, 1);

        boolean result = dbHandler.deletePatient(
            etPatientName.getText().toString());

        if (result)
        {
            tvId.setText("Record Deleted");
            etPatientName.setText("");
            etTestDate.setText("");
        }
        else
            tvId.setText("No Match Found");
    }
}
```