C:\Users\nvs15\AndroidStudioProjects\MyApplication\app\src\main\java\com\example\myapplication\ui  
package com.example.myapplication.ui;  
  
import android.app.AlertDialog;  
import android.os.Bundle;  
import android.text.TextUtils;  
import android.view.LayoutInflater;  
import android.widget.EditText;  
import android.widget.Toast;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.recyclerview.widget.LinearLayoutManager;  
import androidx.recyclerview.widget.RecyclerView;  
  
import com.example.myapplication.R;  
import com.example.myapplication.adapter.StudentAdapter;  
import com.example.myapplication.database.DatabaseHandler;  
import com.example.myapplication.model.Student;  
  
import java.util.List;  
  
public class MainActivity extends AppCompatActivity {  
 private RecyclerView recyclerView;  
 private StudentAdapter adapter;  
 private DatabaseHandler db;  
 private List<Student> studentList;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 db = new DatabaseHandler(this);  
 recyclerView = findViewById(R.id.*rvStudents*);  
  
 recyclerView.setLayoutManager(new LinearLayoutManager(this));  
 loadStudents();  
  
 findViewById(R.id.*btnAdd*).setOnClickListener(v -> showAddDialog());  
 }  
  
 private void showAddDialog() {  
 AlertDialog.Builder builder = new AlertDialog.Builder(this);  
 LayoutInflater inflater = this.getLayoutInflater();  
 android.view.View dialogView = inflater.inflate(R.layout.*dialog\_add\_student*, null);  
 builder.setView(dialogView);  
  
 EditText etName = dialogView.findViewById(R.id.*etName*);  
 EditText etEmail = dialogView.findViewById(R.id.*etEmail*);  
 EditText etPhone = dialogView.findViewById(R.id.*etPhone*);  
  
 builder.setTitle("Thêm sinh viên");  
 builder.setPositiveButton("Lưu", (dialog, which) -> {  
 String name = etName.getText().toString().trim();  
 String email = etEmail.getText().toString().trim();  
 String phone = etPhone.getText().toString().trim();  
  
 if (TextUtils.*isEmpty*(name) || TextUtils.*isEmpty*(email) || TextUtils.*isEmpty*(phone)) {  
 Toast.*makeText*(MainActivity.this, "Vui lòng nhập đầy đủ thông tin", Toast.*LENGTH\_SHORT*).show();  
 } else {  
 Student s = new Student(name, email, phone);  
 db.addStudent(s);  
 Toast.*makeText*(MainActivity.this, "Đã thêm sinh viên", Toast.*LENGTH\_SHORT*).show();  
 loadStudents();  
 }  
 });  
  
 builder.setNegativeButton("Hủy", (dialog, which) -> dialog.dismiss());  
  
 builder.create().show();  
 }  
  
 private void showEditDialog(Student student) {  
 AlertDialog.Builder builder = new AlertDialog.Builder(this);  
 LayoutInflater inflater = this.getLayoutInflater();  
 android.view.View dialogView = inflater.inflate(R.layout.*dialog\_add\_student*, null);  
 builder.setView(dialogView);  
  
 EditText etName = dialogView.findViewById(R.id.*etName*);  
 EditText etEmail = dialogView.findViewById(R.id.*etEmail*);  
 EditText etPhone = dialogView.findViewById(R.id.*etPhone*);  
  
 // điền sẵn thông tin  
 etName.setText(student.getName());  
 etEmail.setText(student.getEmail());  
 etPhone.setText(student.getPhone());  
  
 builder.setTitle("Sửa sinh viên");  
 builder.setPositiveButton("Cập nhật", (dialog, which) -> {  
 String name = etName.getText().toString().trim();  
 String email = etEmail.getText().toString().trim();  
 String phone = etPhone.getText().toString().trim();  
  
 if (TextUtils.*isEmpty*(name) || TextUtils.*isEmpty*(email) || TextUtils.*isEmpty*(phone)) {  
 Toast.*makeText*(MainActivity.this, "Vui lòng nhập đầy đủ thông tin", Toast.*LENGTH\_SHORT*).show();  
 } else {  
 student.setName(name);  
 student.setEmail(email);  
 student.setPhone(phone);  
 db.updateStudent(student);  
 Toast.*makeText*(MainActivity.this, "Đã cập nhật sinh viên", Toast.*LENGTH\_SHORT*).show();  
 loadStudents();  
 }  
 });  
  
 builder.setNegativeButton("Hủy", (dialog, which) -> dialog.dismiss());  
  
 builder.create().show();  
 }  
  
 private void loadStudents() {  
 studentList = db.getAllStudents();  
 adapter = new StudentAdapter(studentList, new StudentAdapter.OnStudentClickListener() {  
 @Override  
 public void onStudentEdit(Student student) {  
 showEditDialog(student);  
 }  
  
 @Override  
 public void onStudentDelete(Student student) {  
 db.deleteStudent(student.getId());  
 Toast.*makeText*(MainActivity.this, "Đã xóa " + student.getName(), Toast.*LENGTH\_SHORT*).show();  
 loadStudents();  
 }  
 });  
 recyclerView.setAdapter(adapter);  
 }  
}

*C:\Users\nvs15\AndroidStudioProjects\MyApplication\app\src\main\java\com\example\myapplication\database\DatabaseHandler.java*  
package com.example.myapplication.database;  
  
import android.content.ContentValues;  
import android.content.Context;  
import android.database.Cursor;  
import android.database.sqlite.SQLiteDatabase;  
import android.database.sqlite.SQLiteOpenHelper;  
  
import com.example.myapplication.model.Student;  
  
import java.util.ArrayList;  
import java.util.List;  
  
public class DatabaseHandler extends SQLiteOpenHelper {  
 private static final int *DATABASE\_VERSION* = 1;  
 private static final String *DATABASE\_NAME* = "studentsManager";  
 private static final String *TABLE\_STUDENTS* = "students";  
  
 private static final String *KEY\_ID* = "id";  
 private static final String *KEY\_NAME* = "name";  
 private static final String *KEY\_EMAIL* = "email";  
 private static final String *KEY\_PHONE* = "phone";  
  
 public DatabaseHandler(Context context) {  
 super(context, *DATABASE\_NAME*, null, *DATABASE\_VERSION*);  
 }  
  
 @Override  
 public void onCreate(SQLiteDatabase db) {  
 String CREATE\_TABLE = "CREATE TABLE " + *TABLE\_STUDENTS* + "("  
 + *KEY\_ID* + " INTEGER PRIMARY KEY AUTOINCREMENT,"  
 + *KEY\_NAME* + " TEXT,"  
 + *KEY\_EMAIL* + " TEXT,"  
 + *KEY\_PHONE* + " TEXT" + ")";  
 db.execSQL(CREATE\_TABLE);  
 }  
  
 @Override  
 public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {  
 db.execSQL("DROP TABLE IF EXISTS " + *TABLE\_STUDENTS*);  
 onCreate(db);  
 }  
  
 // Thêm sinh viên  
 public void addStudent(Student student) {  
 SQLiteDatabase db = this.getWritableDatabase();  
 ContentValues values = new ContentValues();  
 values.put(*KEY\_NAME*, student.getName());  
 values.put(*KEY\_EMAIL*, student.getEmail());  
 values.put(*KEY\_PHONE*, student.getPhone());  
 db.insert(*TABLE\_STUDENTS*, null, values);  
 db.close();  
 }  
  
 // Lấy danh sách sinh viên  
 public List<Student> getAllStudents() {  
 List<Student> studentList = new ArrayList<>();  
 String selectQuery = "SELECT \* FROM " + *TABLE\_STUDENTS*;  
 SQLiteDatabase db = this.getReadableDatabase();  
 Cursor cursor = db.rawQuery(selectQuery, null);  
  
 if (cursor.moveToFirst()) {  
 do {  
 Student student = new Student();  
 student.setId(cursor.getInt(0));  
 student.setName(cursor.getString(1));  
 student.setEmail(cursor.getString(2));  
 student.setPhone(cursor.getString(3));  
 studentList.add(student);  
 } while (cursor.moveToNext());  
 }  
 cursor.close();  
 db.close();  
 return studentList;  
 }  
  
 // Cập nhật  
 public int updateStudent(Student student) {  
 SQLiteDatabase db = this.getWritableDatabase();  
 ContentValues values = new ContentValues();  
 values.put(*KEY\_NAME*, student.getName());  
 values.put(*KEY\_EMAIL*, student.getEmail());  
 values.put(*KEY\_PHONE*, student.getPhone());  
 return db.update(*TABLE\_STUDENTS*, values, *KEY\_ID* + "=?",  
 new String[]{String.*valueOf*(student.getId())});  
 }  
  
 // Xóa  
 public void deleteStudent(int id) {  
 SQLiteDatabase db = this.getWritableDatabase();  
 db.delete(*TABLE\_STUDENTS*, *KEY\_ID* + "=?", new String[]{String.*valueOf*(id)});  
 db.close();  
 }  
}

A screenshot of a phone

AI-generated content may be incorrect.