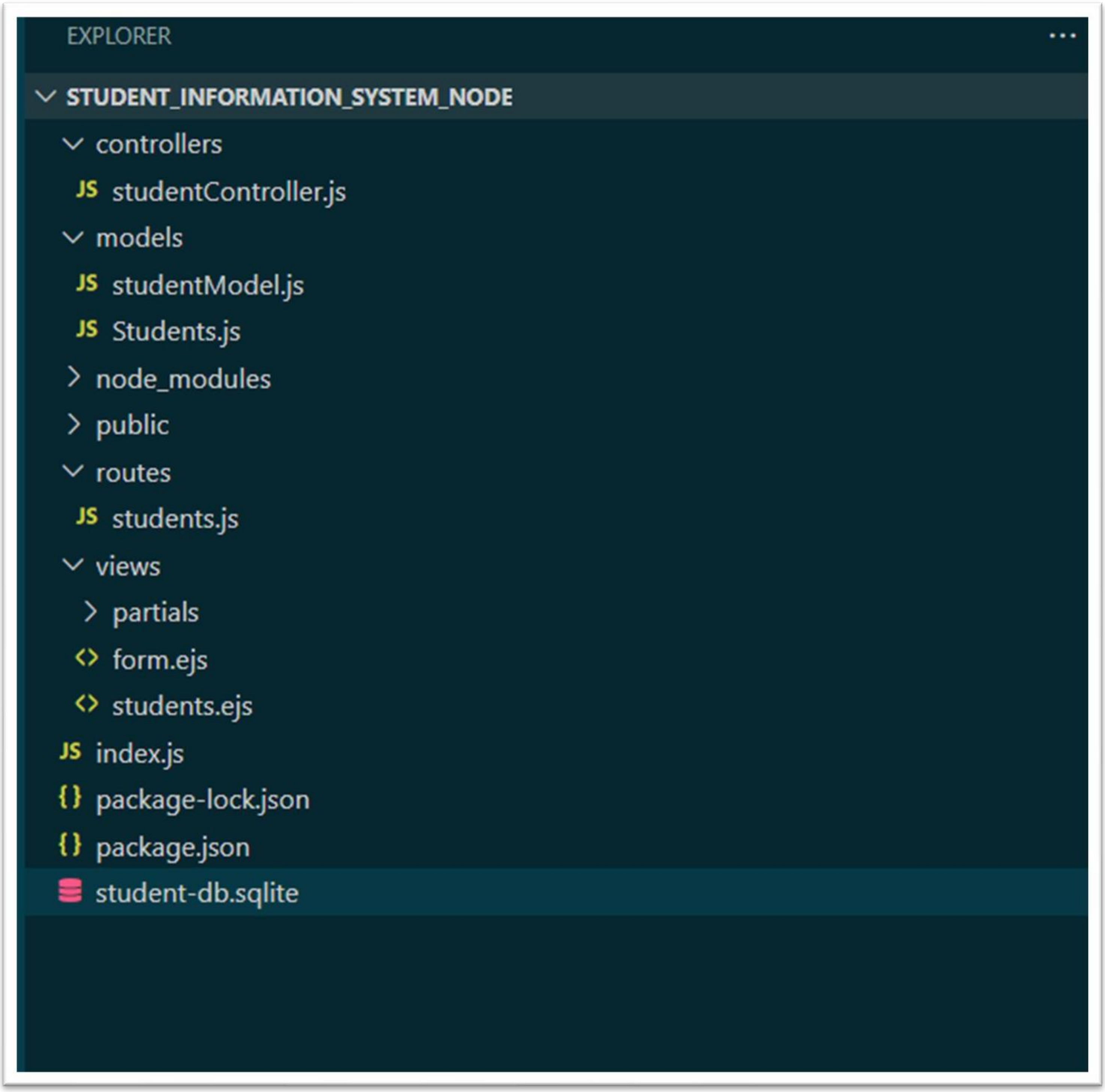
Lab#13(a). Setup Node Js project on Student Information System

Final Outcome:

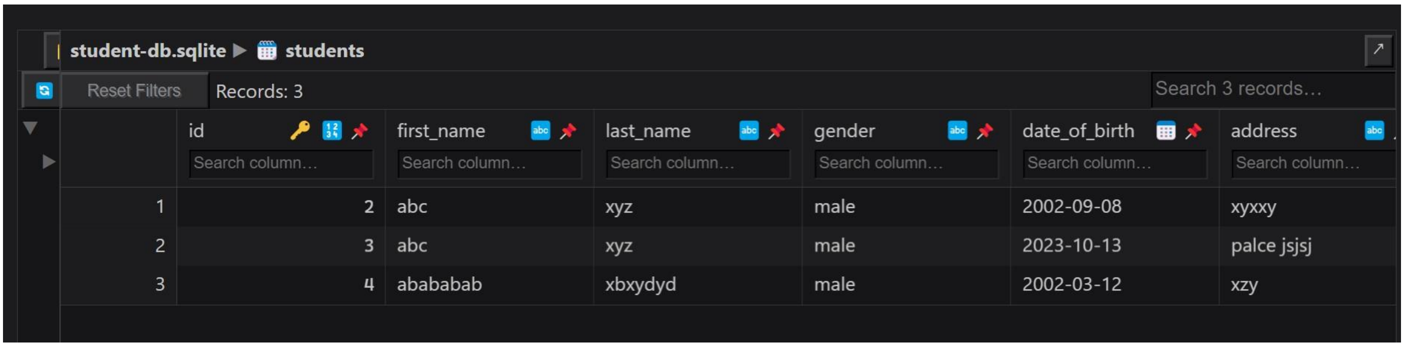


```
∨ STUDENT_INFORMATION_SYSTEM_NODE
  ∨ controllers
    JS studentController.js
  ∨ models
    JS studentModel.js
    JS Students.js
  > node_modules
  > public
  ∨ routes
    JS students.js
  ∨ views
    > partials
    <> form.ejs
    <> students.ejs
  JS index.js
  {} package-lock.json
  {} package.json
  student-db.sqlite
```

Lab#13(b)

Lab#13(b). Setup the database in Node Js for Student Information System

Final Outcome:



	id	first_name	last_name	gender	date_of_birth	address
1	2	abc	xyz	male	2002-09-08	xyxxy
2	3	abc	xyz	male	2023-10-13	palce jsjsj
3	4	ababab	xbxydyd	male	2002-03-12	xzy

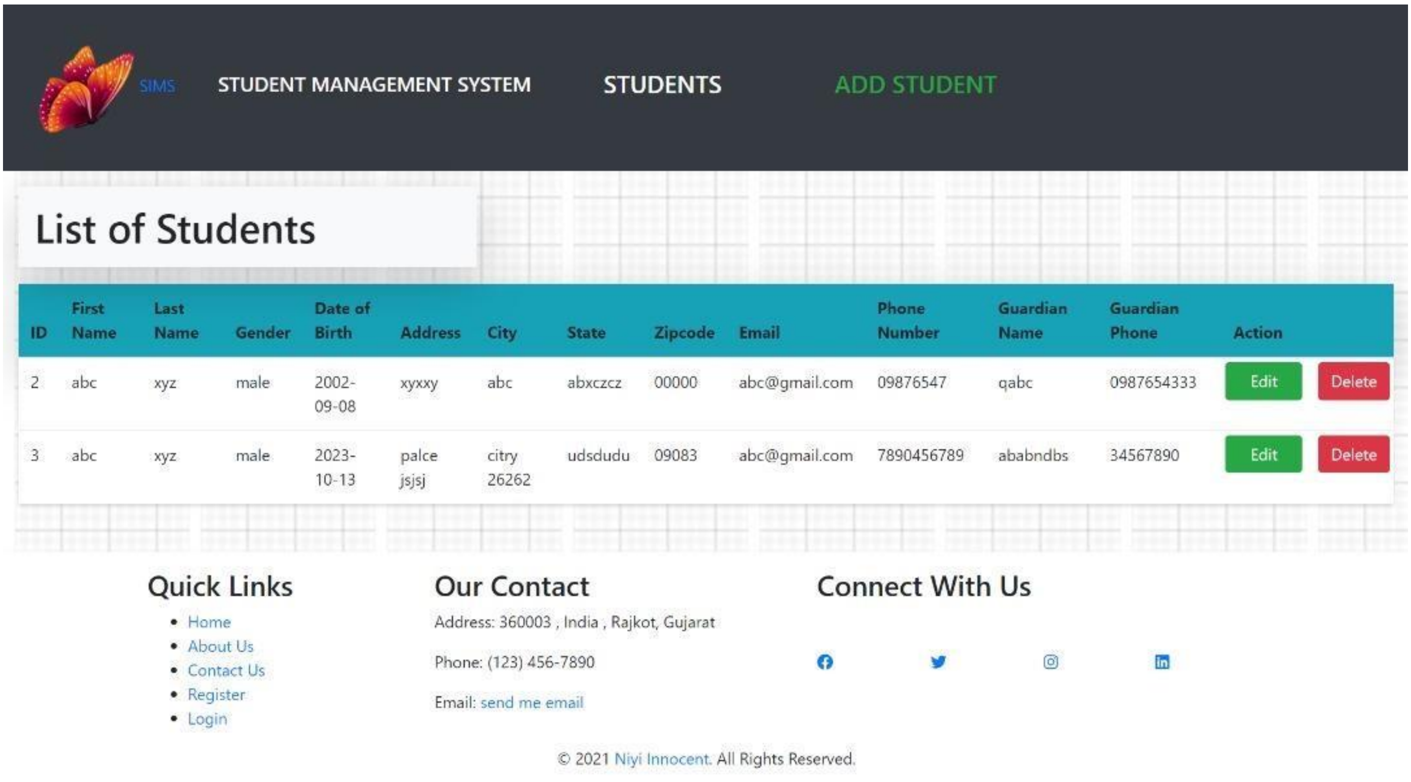
Code Snippets:

```
const sqlite3 = require('sqlite3').verbose();
const db = new sqlite3.Database('student-db.sqlite');

db.serialize(() => {
  db.run(`
    CREATE TABLE IF NOT EXISTS students (
      id INTEGER PRIMARY KEY,
      first_name TEXT,
      last_name TEXT,
      gender TEXT,
      date_of_birth DATE,
      address TEXT,
      city TEXT,
      state TEXT,
      zipcode TEXT,
      email TEXT,
      phone_number  TEXT,
      guardian_name  TEXT,
      guardian_phone TEXT
    )
  `, (err) => {
    if (err) {
console.error("Error creating the 'students' table:", err.message);
    } else {
      console.log("Table 'students' created successfully.");
    }
  });
});
db.close((err) => {
  if (err) {
    console.error("Error closing the database:", err.message);
  } else {
    console.log("Database closed.");
  }
});
```

Lab#13(c). Implement Select Operation to fetch details of students from Student Information System.

Code Snippets:



List of Students

ID	First Name	Last Name	Gender	Date of Birth	Address	City	State	Zipcode	Email	Phone Number	Guardian Name	Guardian Phone	Action	
2	abc	xyz	male	2002-09-08	xyxxy	abc	abxczcz	00000	abc@gmail.com	09876547	qabc	0987654333	Edit	Delete
3	abc	xyz	male	2023-10-13	palce jsjsj	citry 26262	udsdudu	09083	abc@gmail.com	7890456789	ababndbs	34567890	Edit	Delete

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CodeSnippet:

```
// Route handler to list all students
exports.listStudents = (req, res) => {
 db.all("SELECT * FROM students", (err, students) => {
  if (err) {
   console.error(err);
   res.status(500).send("Internal Server Error");
   return;
  }

  if (students.length === 0) {
   // Handle the case where no students are found
   res.status(404).send("No Students Found");
   return;
  }
```

```
    res.render("studentsview", { students });
  });
};

const express = require("express");
const router = express.Router();
const studentController = require("../controllers/studentController");

// Render the form for creating a student
router.get("/form", (req, res) => {
res.render("form", { title: "Create Student" });
});

// Route for all students page
router.get("/all", studentController.listStudents);
```