Node Js Task 1

GitHub Repository: https://github.com/Libisenaps/NodeTask1-CRUD

To build a College Student Details Application using Node.js with CRUD Operations.

```
凸
                           다
다
다
다
다
                                             1) package.json > { } scripts > 🖎 serve

∨ NODEJS

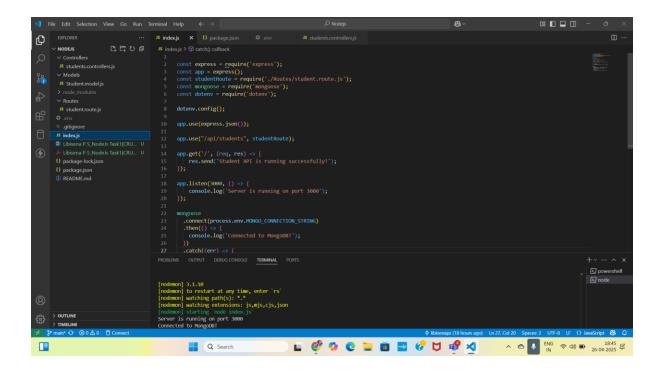
∨ Controllers

                                                          "name": "task",
         JS students.controllers.js
                                                          "version": "1.0.0",
        ∨ Models
                                                          "main": "index.js",
        JS Student.model.js
                                                          "scripts": {
    "serve": "node index.js",
        ∨ Routes
        JS student.route.js
                                                          "dependencies": {
        .gitignore
                                                            "dotenv": "^16.5.0",
"express": "^4.21.2",
"mongodb": "^6.16.0",
       JS index.js
                                                            "mongoose": "^7.8.6"
       {} package-lock.json
                                                          "devDependencies": {
     {} package.json
                                                            "nodemon": "^3.1.10"
       ① README.md
                                                         },
"author": "",
                                                          "license": "ISC",
                                                          "keywords": [],
"description": ""
```

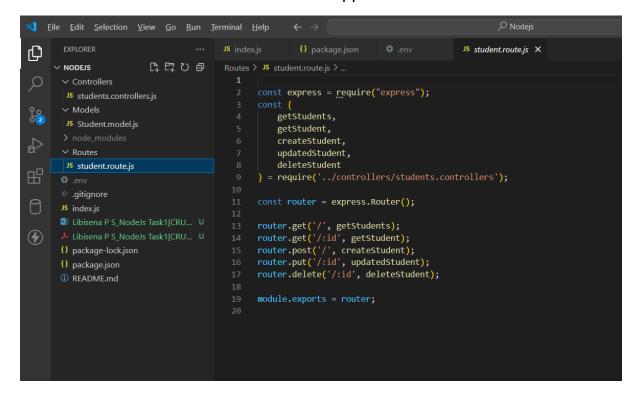
✓ Downloading the necessary packages initially and verifying that the dependencies are correctly updated in the package.json file.



✓ MongoDB Connectivity: The .env file is used to store the connection string taken from MongoDB.



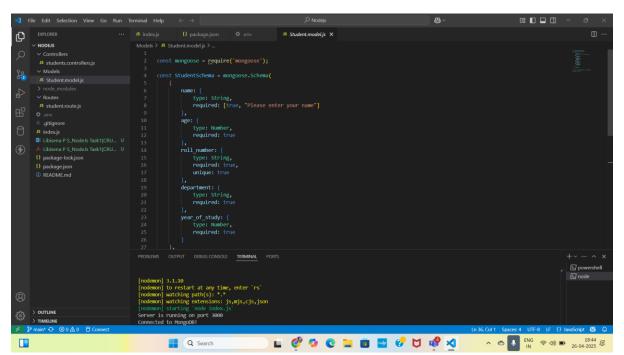
✓ The index.js file is used to set up the server, connect to the database, and define the main routes for the application.



✓ Routes are used to handle operations like adding, fetching, and managing student details.

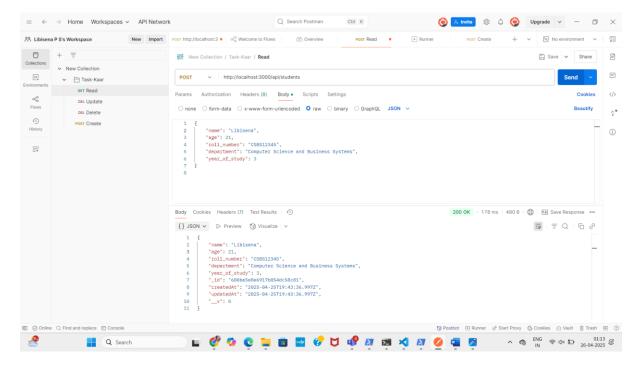
```
| The Life Selection View & Re Run | New |
```

- ✓ Controllers handle the logic for different requests, such as saving and retrieving student details from the database.
- ✓ Models define the structure of the student data and how it will be stored in the MongoDB database.



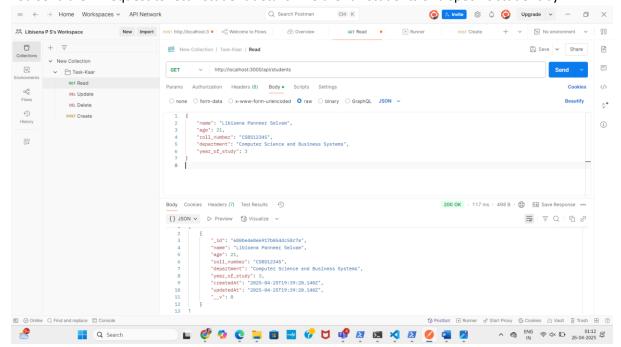
POST - Create

You send a POST request with student details (like name, age, department) to add a new student into the database.



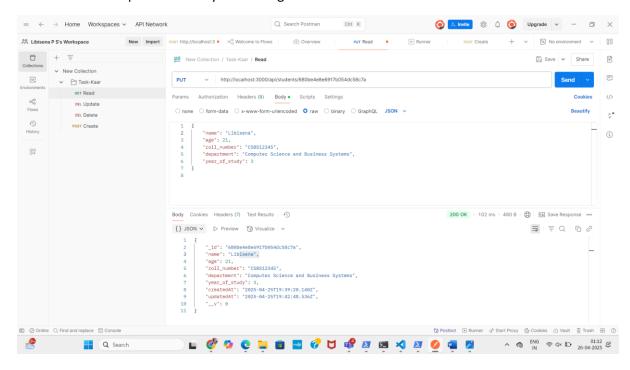
GET - Read

You send a GET request to fetch student details — either all students or a specific student by ID.



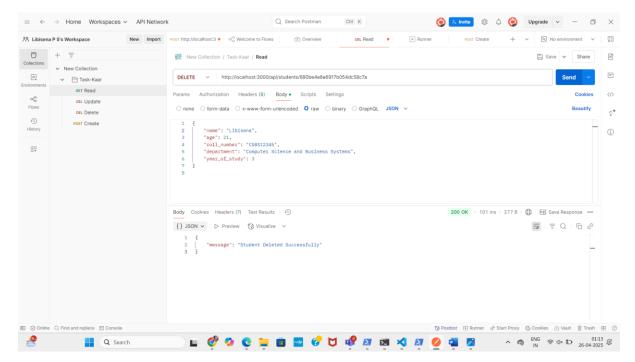
PUT – Update

You send a PUT request to modify an existing student's information based on their ID.



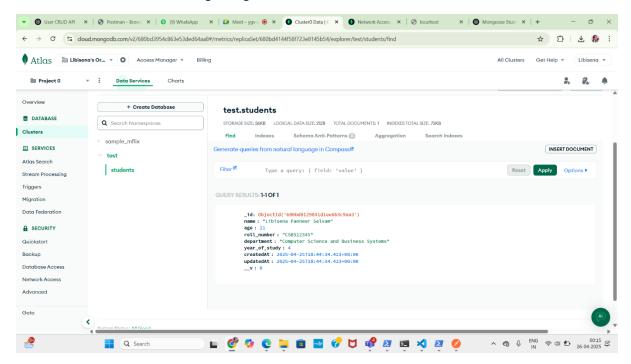
DELETE – Delete

You send a DELETE request to remove a student's record from the database using their ID.



MONGODB

Can see the student details using MongoDB



Node.js Connection with MongoDB and Performing CRUD Operations Using POST

A Student model was created using Mongoose in a Node.js environment, connected to a MongoDB database, and student details were successfully received and logged in the terminal.

