```
|>controllers
| =>student.control.js
|>routes
| =>student.js
|app.js
|db.json
```

```
App.js

const express = require('express');

const app = express();

const studentRoutes = require('./routes/student');

app.use('/students',studentRoutes);

app.listen(3200);
```

```
const express = require('express');
const router = express.Router();
const studentControl = require('./../controllers/student.control');

router.route('/getStudents').get(studentControl.getStudents);
router.route('/insertstudent').post(studentControl.insertstudent);

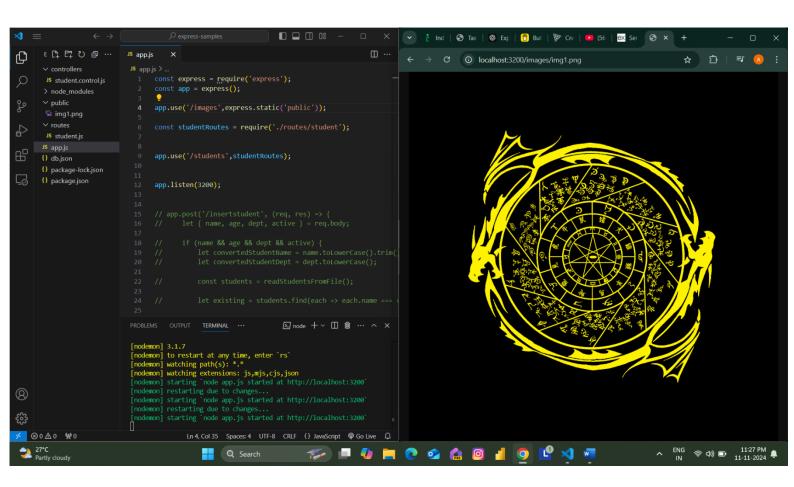
router.route('/deletestudent').delete(studentControl.deletestudent);

router.route('/updatestudent').put(studentControl.updatestudent);

module.exports = router;
```

```
student.controls.js
const fs = require('fs');
const dbPath = 'db.json';
function readStudentsFromFile() {
    try {
        const data = fs.readFileSync(dbPath, 'utf-8');
        console.log('file readed.');
        return JSON.parse(data);
    } catch (err) {
        console.error('Error reading db.json:', err);
        return [];
function writeStudentsToFile(students) {
    try {
        fs.writeFileSync(dbPath, JSON.stringify(students, null, 2));
        console.log('file writed.');
    } catch (err) {
        console.error('Error writing to db.json:', err);
function getStudents(req, res){
        const students = readStudentsFromFile();
        res.json(students);
        console.log('Read file db.json');
function insertstudent(req, res){
    let { name, age, dept, active } = req.body;
    if (name && age && dept && active) {
        let convertedStudentName = name.toLowerCase().trim();
        let convertedStudentDept = dept.toLowerCase();
        const students = readStudentsFromFile();
        let existing = students.find(each => each.name ===
convertedStudentName);
        if (existing) {
            res.send(`Student ${name} already exists.`);
        } else {
```

```
let newStudent = { name: convertedStudentName, age, dept:
convertedStudentDept, active };
            students.push(newStudent);
            writeStudentsToFile(students);
            res.send(`Inserted student ${name} successfully.`);
    } else {
        res.send('Please provide all necessary fields(name, age, dept,
active).');
function deletestudent(req, res) {
    let studentName = req.query.name;
    if (studentName) {
        let convertedStudentName = studentName.toLowerCase().trim();
        const students = readStudentsFromFile();
        const index = students.findIndex(each => each.name.toLowerCase() ===
convertedStudentName);
        if (index >= 0) {
            students.splice(index, 1);
            writeStudentsToFile(students);
            res.send(`Student ${studentName} has been deleted successfully.`);
        } else {
            res.send(`Student ${studentName} not found.`);
    } else {
        res.send('Please enter a valid name to delete.');
function updatestudent(req, res) {
   let name = req.query.name;
    let newData = req.body;
    if (name) {
        const students = readStudentsFromFile();
        const index = students.findIndex(each => each.name.toLowerCase() ===
name.toLowerCase());
        if (index >= 0) {
            students[index] = {
                name: newData.name || students[index].name,
```



```
const express = require('express');
const app = express();
const studentRoutes = require('./routes/student');

app.use('/images',express.static('public'));
app.use((req,res,next)=>{
    let time = new Date();
    console.log(`(${time.toDateString()}) ${req.method}/ ${req.url}`);
    next();
});
app.use('/students',studentRoutes);

app.listen(3200);
```

[nodemon] restarting due to changes...

[nodemon] starting `node app.js started at http://localhost:3200`

## (Mon Nov 11 2024) GET/

[nodemon] restarting due to changes...

[nodemon] starting `node app.js started at http://localhost:3200`

(Mon Nov 11 2024) GET//

(Mon Nov 11 2024) GET//images/

(Mon Nov 11 2024) GET//students/getStudents

file readed.

Read file db.json

