

Practical No. 6

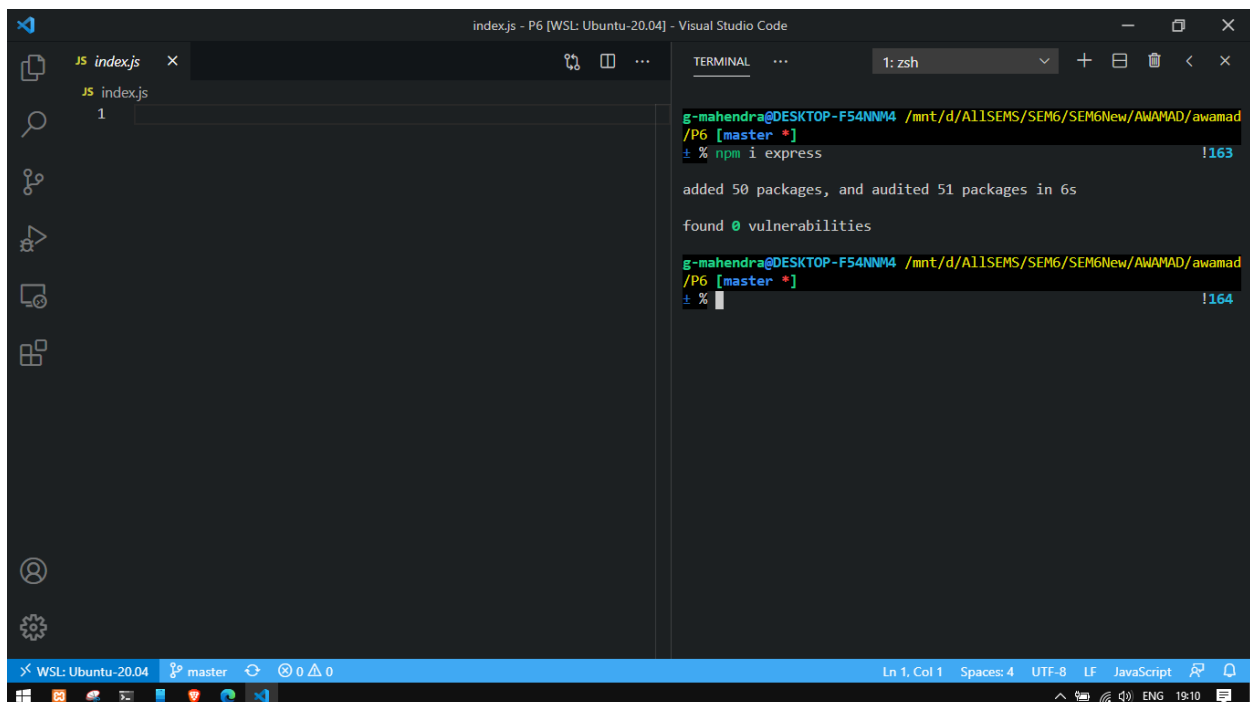
Details

1. 2018BTECS00033 – Mahendra Bhimrao Gcharge
2. GitHub URL: <https://github.com/g-mahendra/awamad>

Problem Statement 1:

- Create an Express app for different route paths
 - a. Root path
 - b. b. /<class>/
 - c. c. /<class>/<batch>/
 - d. d. Use a string pattern for route path (e.g., /*fly/, etc.)
 - e. e. Use req.params to store and access the values of various parameters

Screenshot 1:



The screenshot shows the Visual Studio Code interface with a terminal window open. The terminal displays the command to install Express.js using npm. The output shows that 50 packages were added and 51 packages were audited in 6 seconds, with no vulnerabilities found.

```
g-mahendra@DESKTOP-F54NNW4 /mnt/d/A11SEMS/SEM6/SEM6New/AWAMAD/awamad
[P6 [master *]
± % npm i express !163
added 50 packages, and audited 51 packages in 6s
found 0 vulnerabilities
g-mahendra@DESKTOP-F54NNW4 /mnt/d/A11SEMS/SEM6/SEM6New/AWAMAD/awamad
[P6 [master *]
± %
```

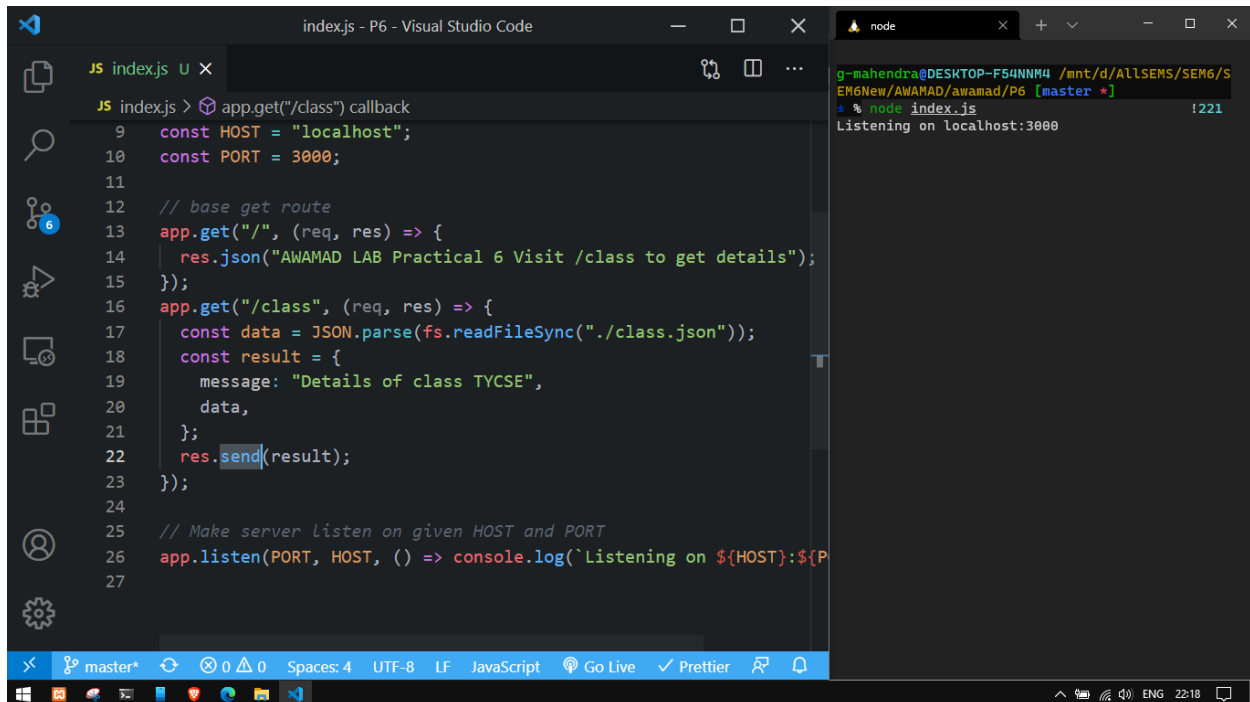
Information 1: Installed “express” using npm

Screenshot 2:



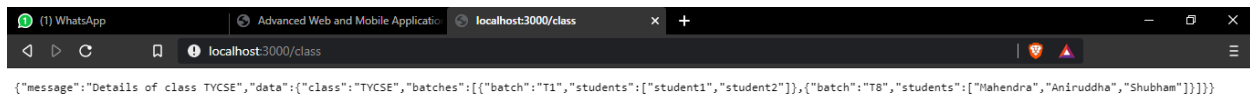
Information 2: Accessing root route

Screenshot 3:



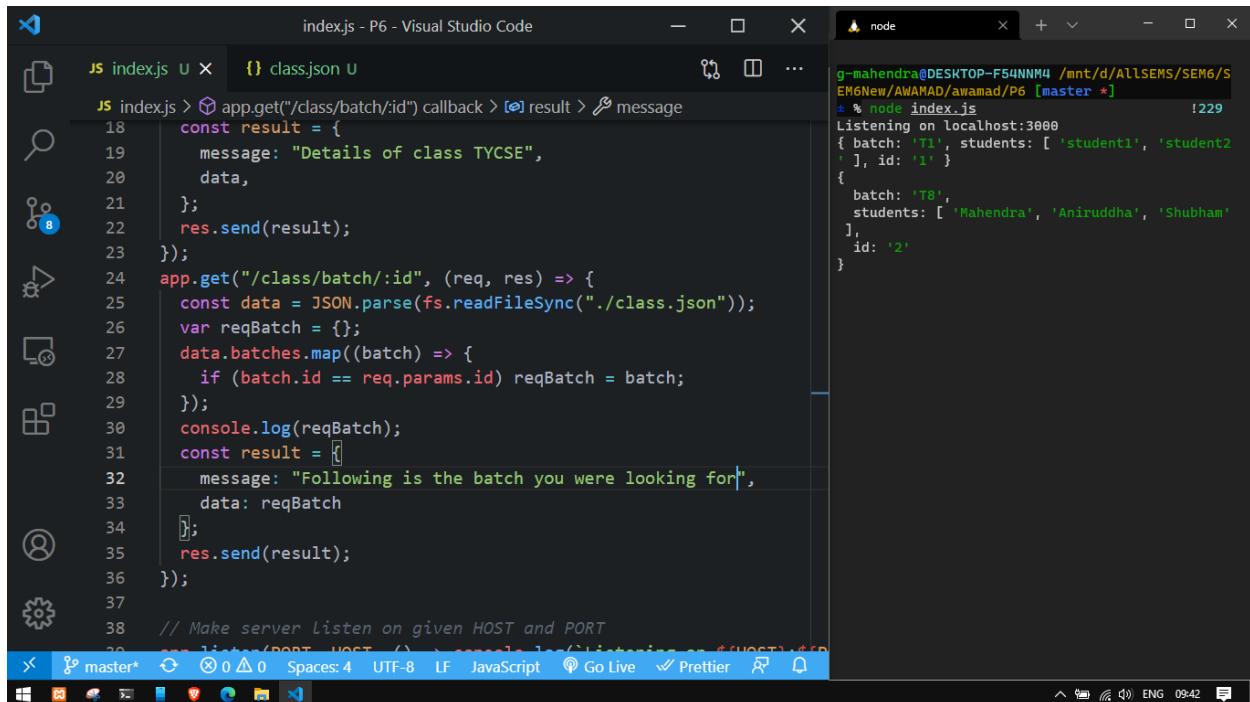
Information 3: Accessing class route

Screenshot 4:



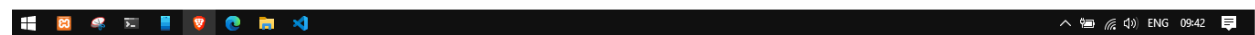
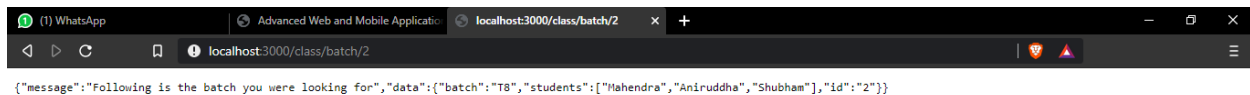
Information 4: JSON data from file sent as output for class route

Screenshot 5:



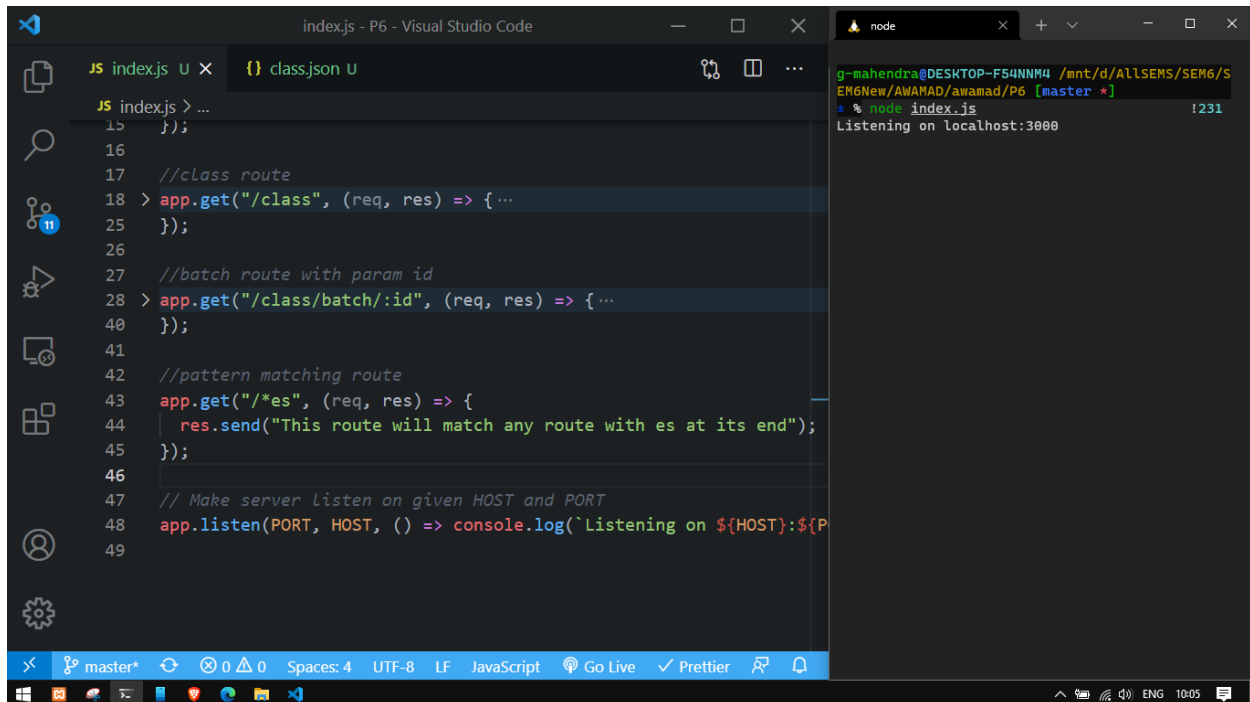
Information 5: accessing batch route

Screenshot 6:



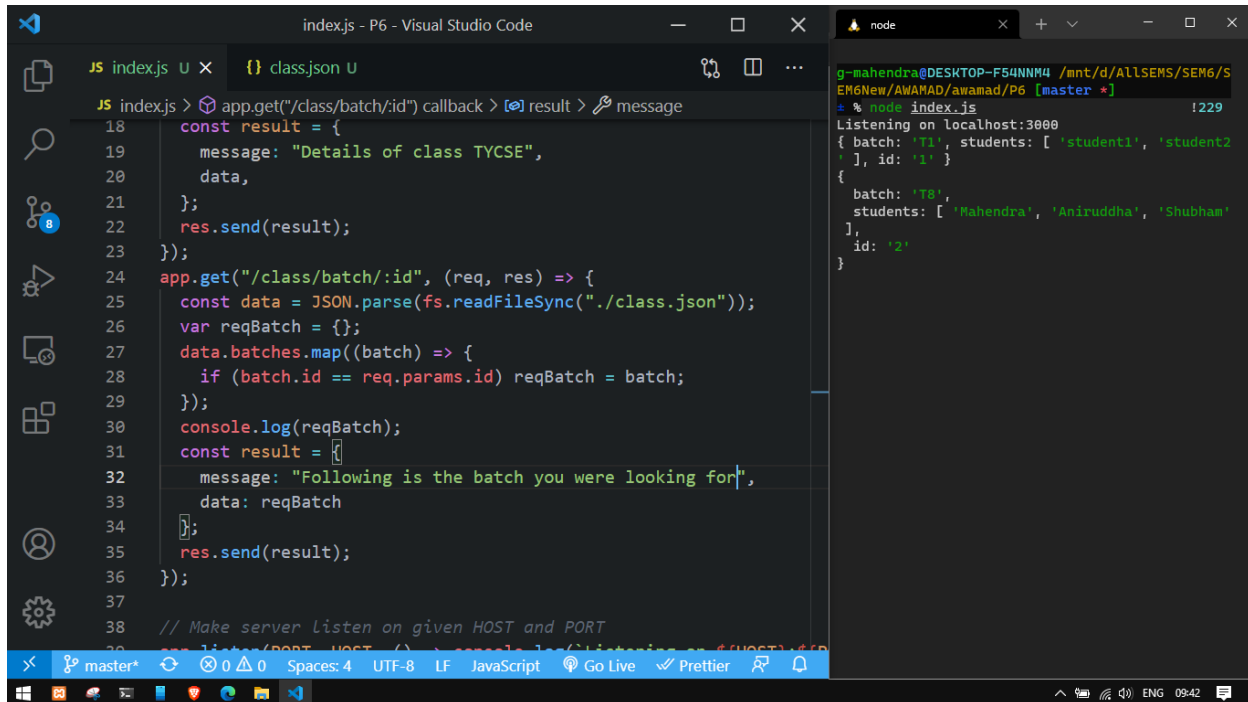
Information 6: JSON data as output from file sent to batch route as output

Screenshot 7:



Information 7: creating /*es route for matching all routes that match /es

Screenshot 8:



The screenshot shows the Visual Studio Code editor with a file named `index.js` open. The code defines a REST API endpoint `app.get("/class/batch/:id")` that retrieves a specific batch from a `class.json` file. The terminal on the right shows the command `node index.js` being executed, and the server is listening on `localhost:3000`. The output shows the server receiving a request for `batch: 'T8'` and returning the corresponding batch details.

```
index.js - P6 - Visual Studio Code

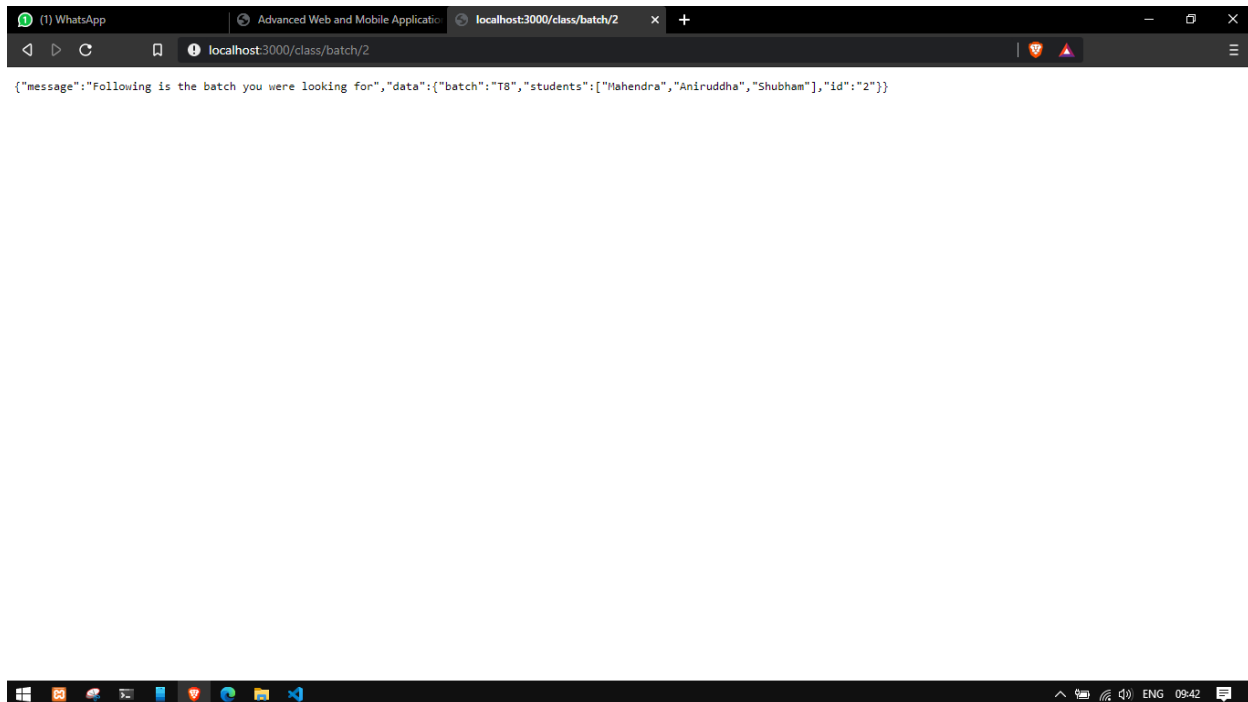
JS index.js U x {} class.json U

JS index.js > app.get("/class/batch/:id") callback > result > message
18 const result = {
19   message: "Details of class TYCSE",
20   data,
21 };
22 res.send(result);
23 });
24 app.get("/class/batch/:id", (req, res) => {
25   const data = JSON.parse(fs.readFileSync("./class.json"));
26   var reqBatch = {};
27   data.batches.map((batch) => {
28     if (batch.id == req.params.id) reqBatch = batch;
29   });
30   console.log(reqBatch);
31   const result = {
32     message: "Following is the batch you were looking for",
33     data: reqBatch
34   };
35   res.send(result);
36 });
37
38 // Make server listen on given HOST and PORT
39 app.listen(PORT, HOST, () => console.log(`Listening on ${HOST}:${PORT}`));
```

```
g-mahendra@DESKTOP-F54NNM4 /mnt/d/ALLSEMS/SEM6/SEM6New/AWAMAD/awamad/P6 [master *]
$ % node index.js
!229
Listening on localhost:3000
{ batch: 'T1', students: [ 'student1', 'student2' ], id: '1' }
{ batch: 'T8', students: [ 'Mahendra', 'Aniruddha', 'Shubham' ], id: '2' }
```

Information 8: Accepting id as route param to retrieve specific batch

Screenshot 9:



The screenshot shows a web browser window with the address `localhost:3000/class/batch/2`. The browser displays the JSON response from the API, which includes the message "Following is the batch you were looking for" and the details of the batch with ID '2'.

```
{ "message": "Following is the batch you were looking for", "data": { "batch": "T8", "students": [ "Mahendra", "Aniruddha", "Shubham" ], "id": "2" } }
```

Information 9: Fetching specific batch by passing route param

