

## Practical No. 9A

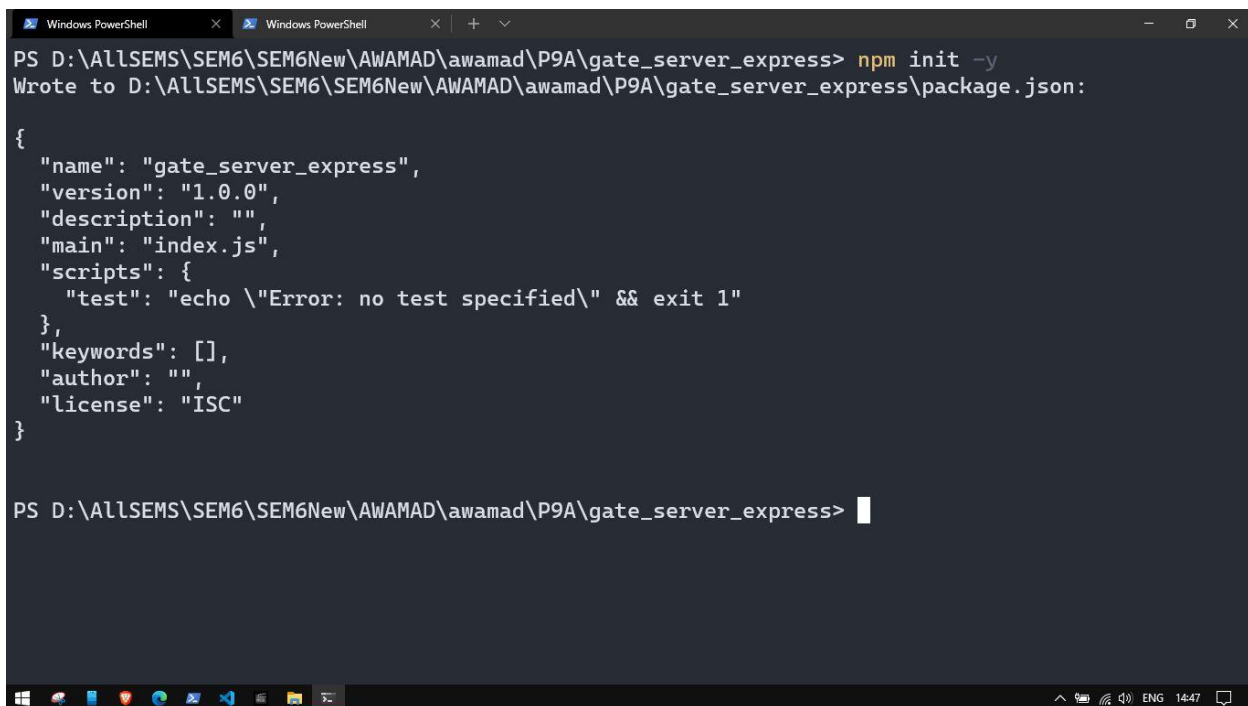
### Exam Seat No:

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

### Problem Statement 1:

- i. Create a GATE registration form in React. (Student Name, Branch, Identity Number (Aadhar/PAN/Driving License), Mobile, Address)
- ii. Store the form data into the 'gate' table.
- iii. Retrieve and Display the data in the HTML table.
- iv. Use separate routes.
- v. Create index/homepage and add links any engineering educational links on it and one link for GATE registration form

### Screenshot 1:



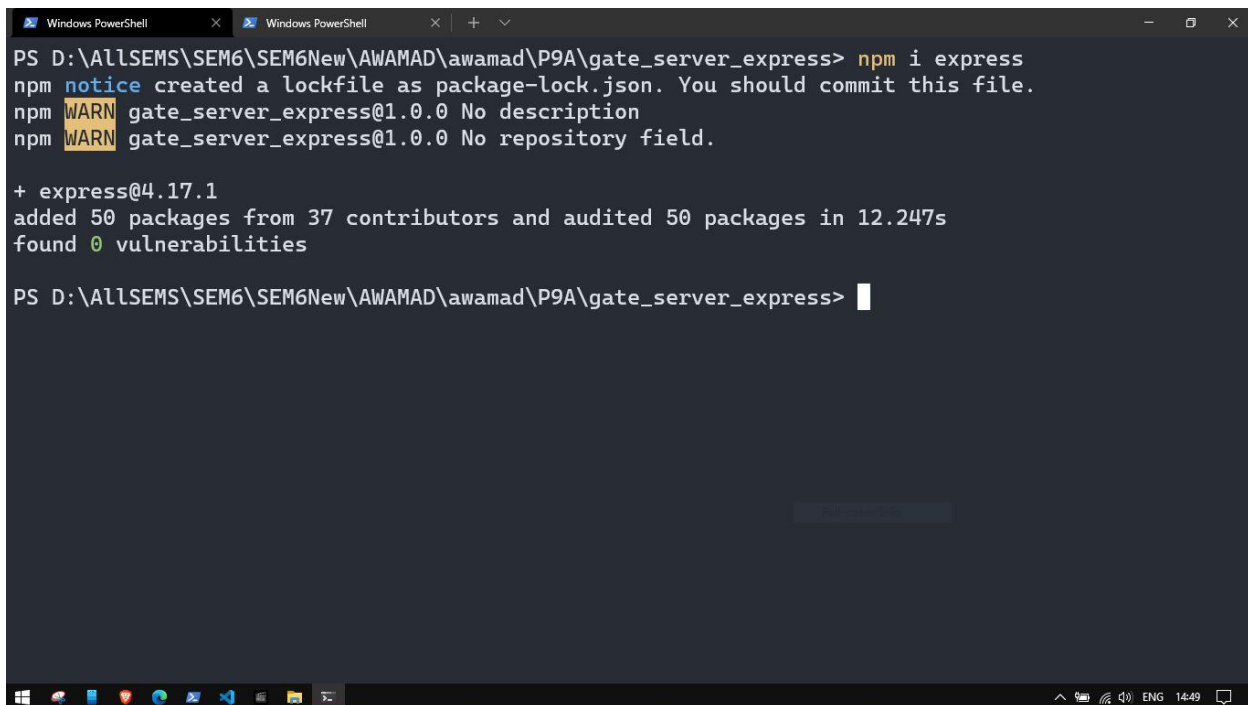
```
PS D:\ALLSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_server_express> npm init -y
Wrote to D:\ALLSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_server_express\package.json:

{
  "name": "gate_server_express",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}

PS D:\ALLSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_server_express>
```

### Information 1: Creating express server with npm

## Screenshot 2:



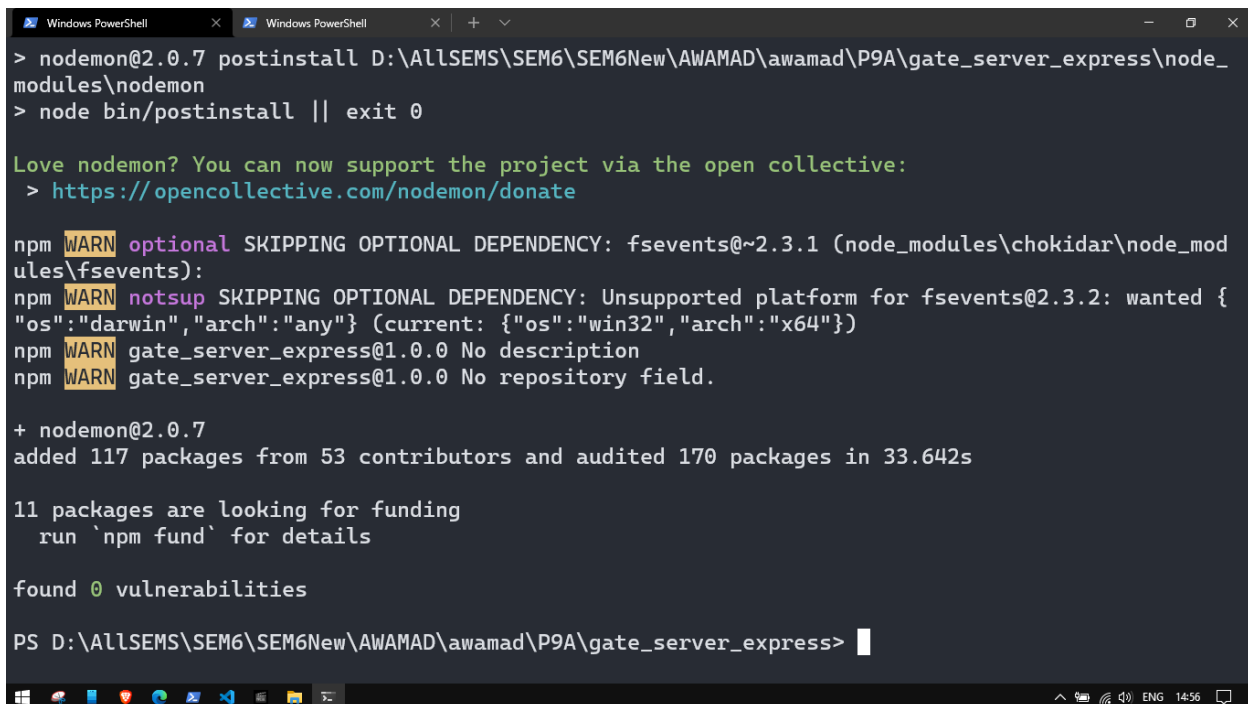
```
PS D:\AllSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_server_express> npm i express
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN gate_server_express@1.0.0 No description
npm WARN gate_server_express@1.0.0 No repository field.

+ express@4.17.1
added 50 packages from 37 contributors and audited 50 packages in 12.247s
found 0 vulnerabilities

PS D:\AllSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_server_express>
```

## Information 2: Installing express

## Screenshot 3:



```
> nodemon@2.0.7 postinstall D:\AllSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_server_express\node_modules\nodemon
> node bin/postinstall || exit 0

Love nodemon? You can now support the project via the open collective:
> https://opencollective.com/nodemon/donate

npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@~2.3.1 (node_modules\chokidar\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN gate_server_express@1.0.0 No description
npm WARN gate_server_express@1.0.0 No repository field.

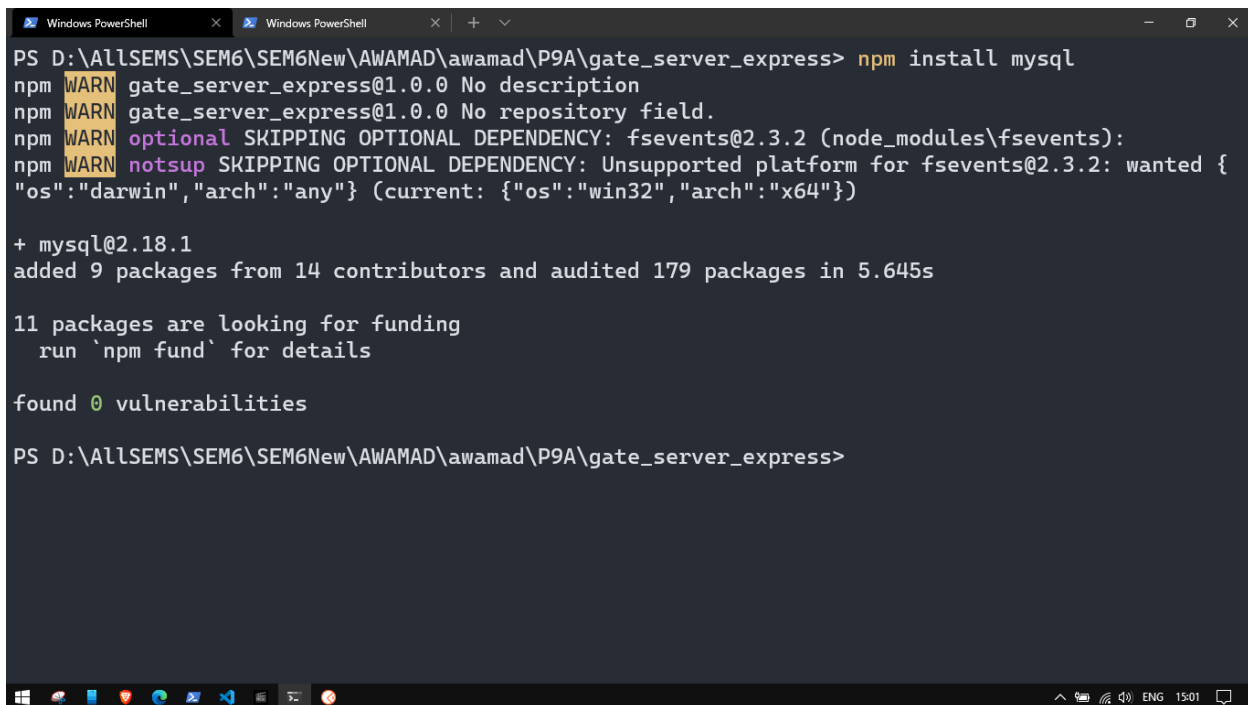
+ nodemon@2.0.7
added 117 packages from 53 contributors and audited 170 packages in 33.642s

11 packages are looking for funding
  run 'npm fund' for details

found 0 vulnerabilities

PS D:\AllSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_server_express>
```

#### Screenshot 4:



```
PS D:\AllSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_server_express> npm install mysql
npm WARN gate_server_express@1.0.0 No description
npm WARN gate_server_express@1.0.0 No repository field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {
"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

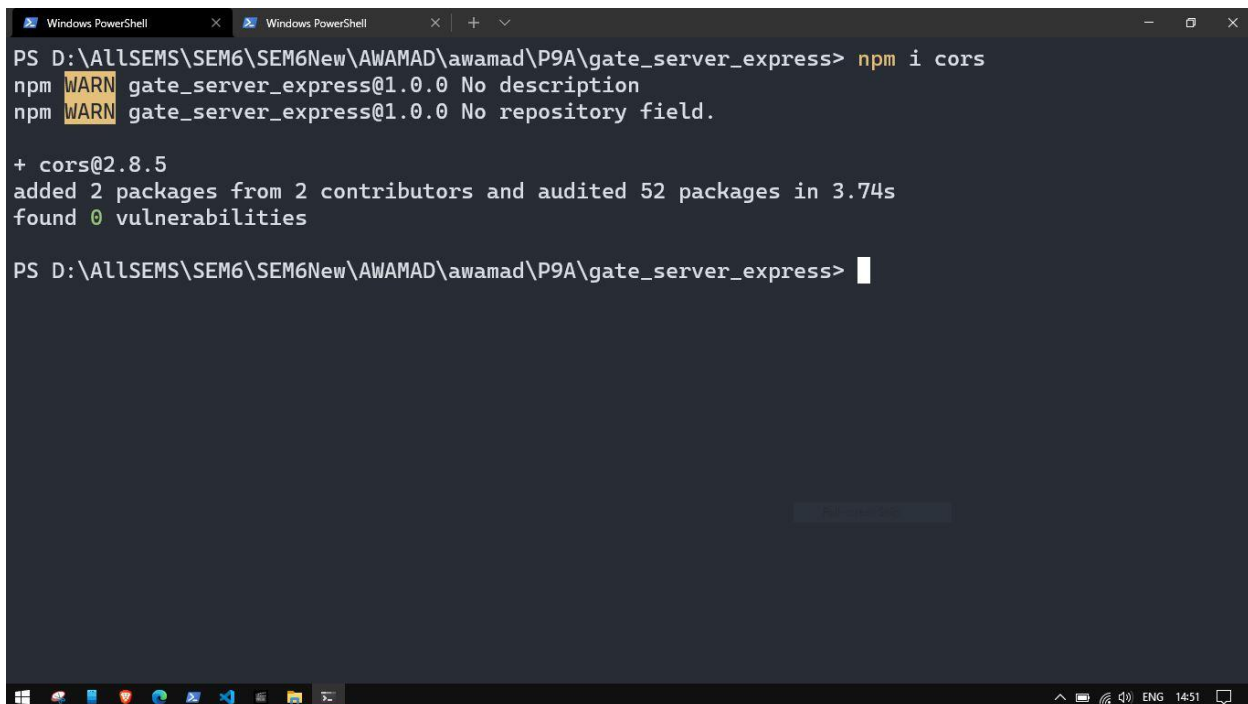
+ mysql@2.18.1
added 9 packages from 14 contributors and audited 179 packages in 5.645s

11 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

PS D:\AllSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_server_express>
```

#### Screenshot 5:



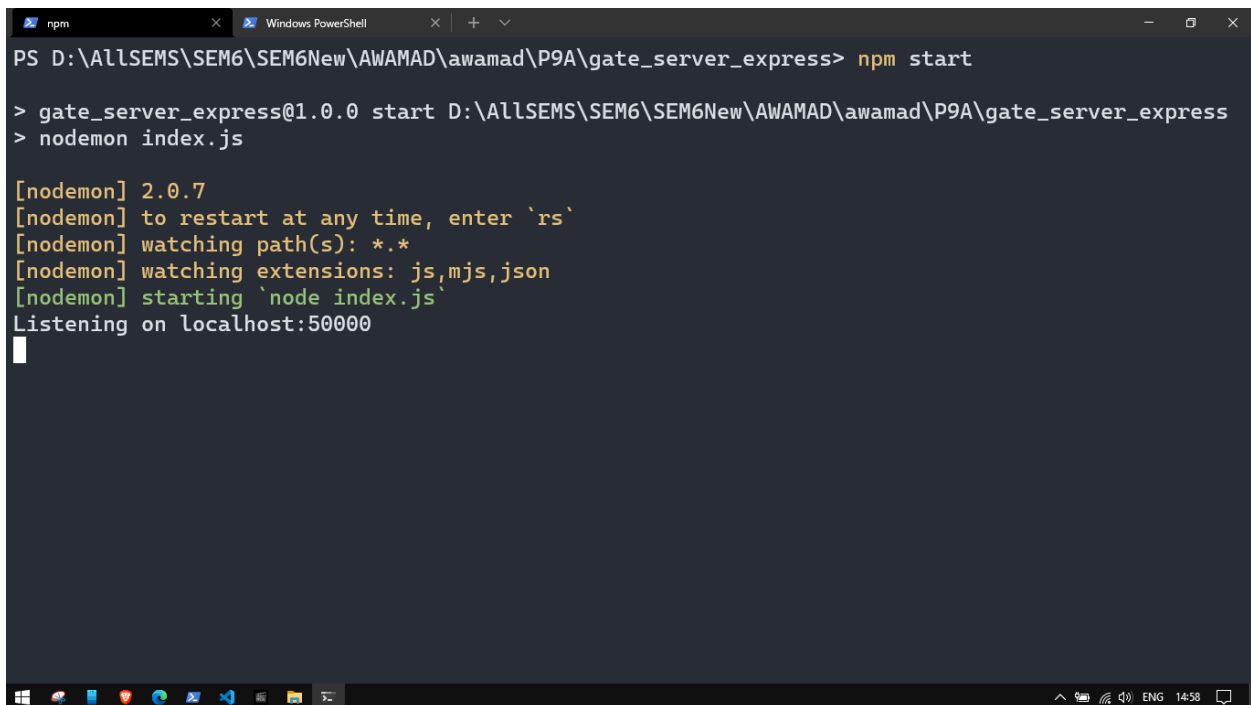
```
PS D:\AllSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_server_express> npm i cors
npm WARN gate_server_express@1.0.0 No description
npm WARN gate_server_express@1.0.0 No repository field.

+ cors@2.8.5
added 2 packages from 2 contributors and audited 52 packages in 3.74s
found 0 vulnerabilities

PS D:\AllSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_server_express>
```

**Information 3, 4, 5:** Installing required dependencies such as **CORS, MYSQL, NODEMON**

### Screenshot 6:



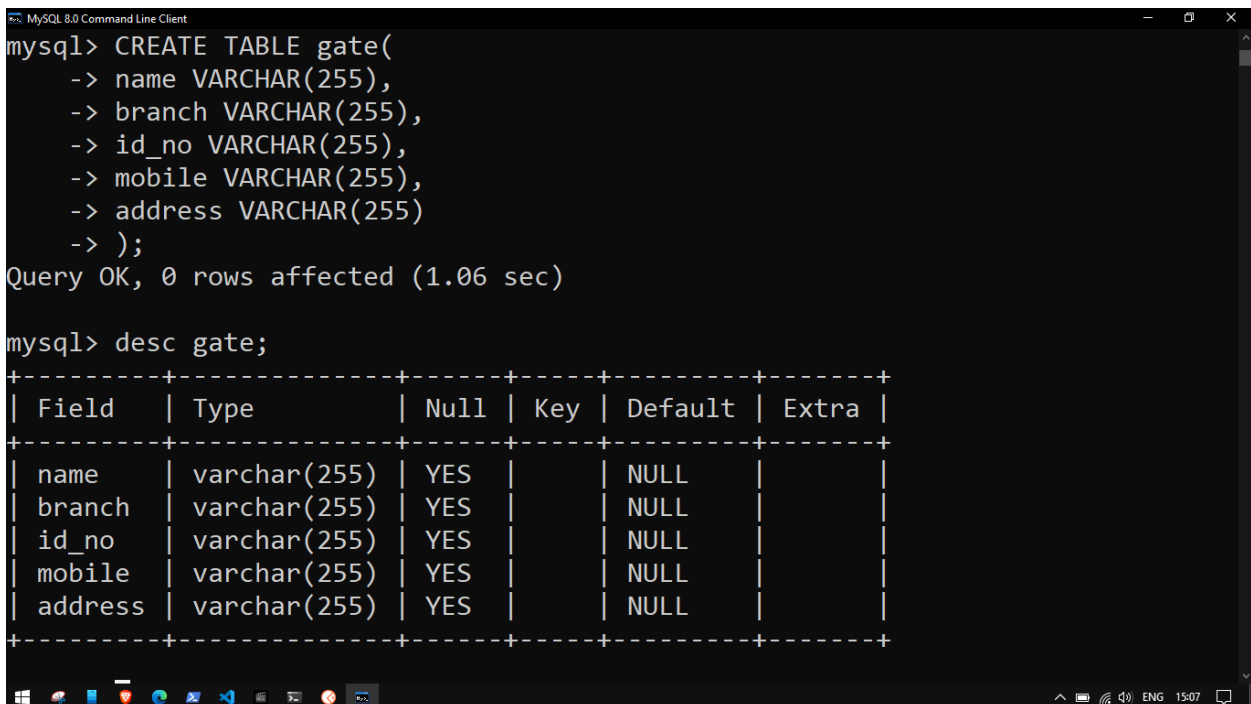
```
PS D:\AllSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_server_express> npm start

> gate_server_express@1.0.0 start D:\AllSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_server_express
> nodemon index.js

[nodemon] 2.0.7
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node index.js`
Listening on localhost:50000
```

**Information 6:** Starting server with nodemon using npm stat with custom start script

### Screenshot 7:

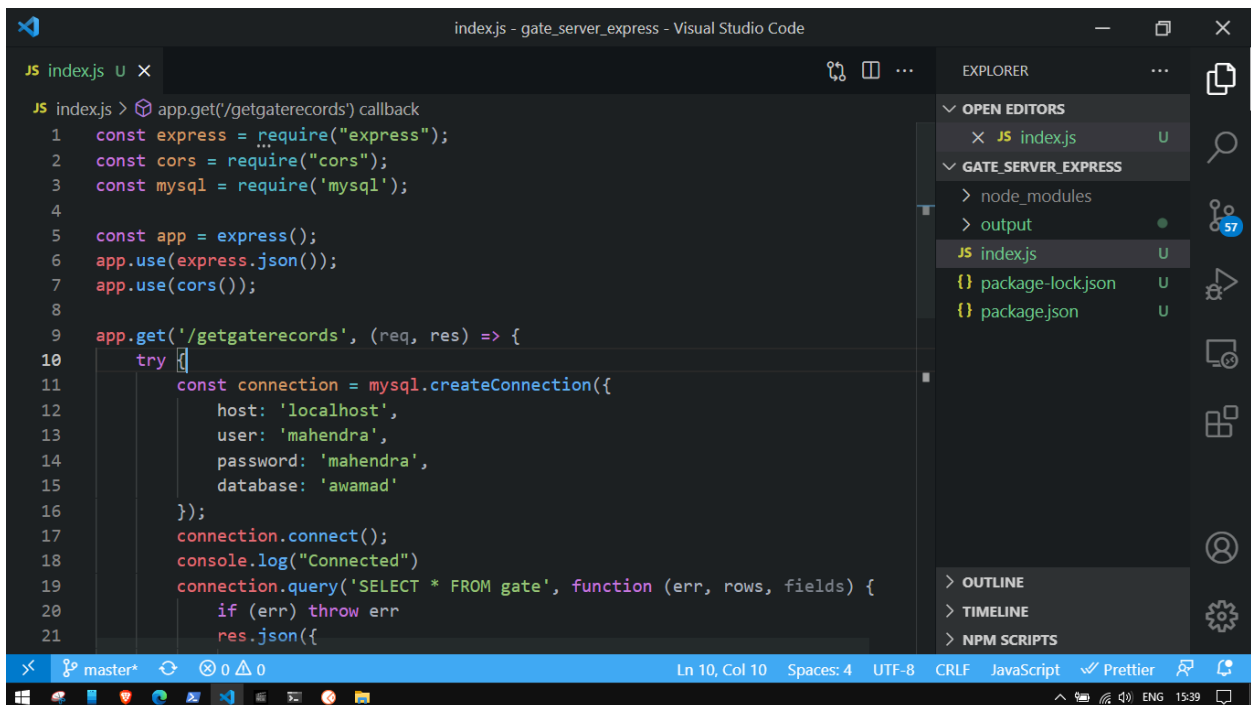


```
mysql> CREATE TABLE gate(
  -> name VARCHAR(255),
  -> branch VARCHAR(255),
  -> id_no VARCHAR(255),
  -> mobile VARCHAR(255),
  -> address VARCHAR(255)
  -> );
Query OK, 0 rows affected (1.06 sec)

mysql> desc gate;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name  | varchar(255)  | YES  |     | NULL    |       |
| branch | varchar(255)  | YES  |     | NULL    |       |
| id_no  | varchar(255)  | YES  |     | NULL    |       |
| mobile | varchar(255)  | YES  |     | NULL    |       |
| address | varchar(255)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

**Information 7:** Create Gate table in mysql

**Screenshot 8:**

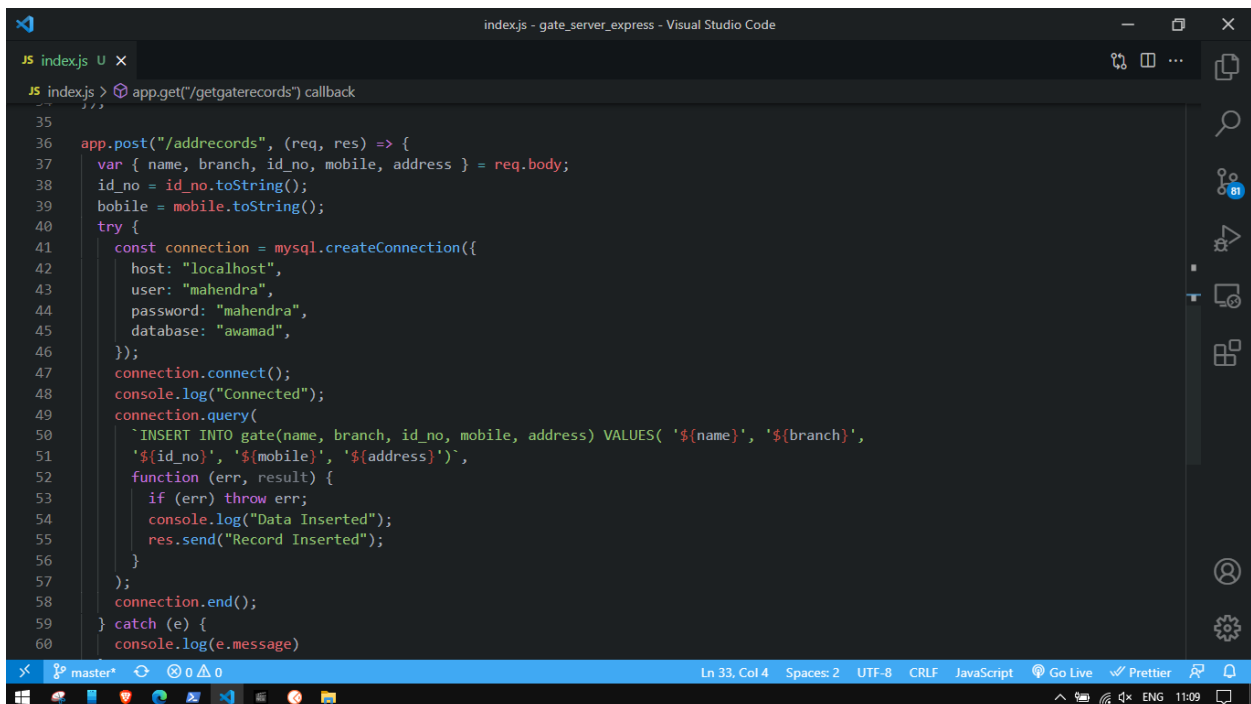


```
index.js - gate_server_express - Visual Studio Code

JS index.js U X
JS index.js > app.get("/getgaterecords") callback
1  const express = require("express");
2  const cors = require("cors");
3  const mysql = require('mysql');
4
5  const app = express();
6  app.use(express.json());
7  app.use(cors());
8
9  app.get('/getgaterecords', (req, res) => {
10     try {
11         const connection = mysql.createConnection({
12             host: 'localhost',
13             user: 'mahendra',
14             password: 'mahendra',
15             database: 'awamad'
16         });
17         connection.connect();
18         console.log("Connected")
19         connection.query('SELECT * FROM gate', function (err, rows, fields) {
20             if (err) throw err
21             res.json({
```

**Information 8:** Express server get method for fetching gate records

**Screenshot 9:**

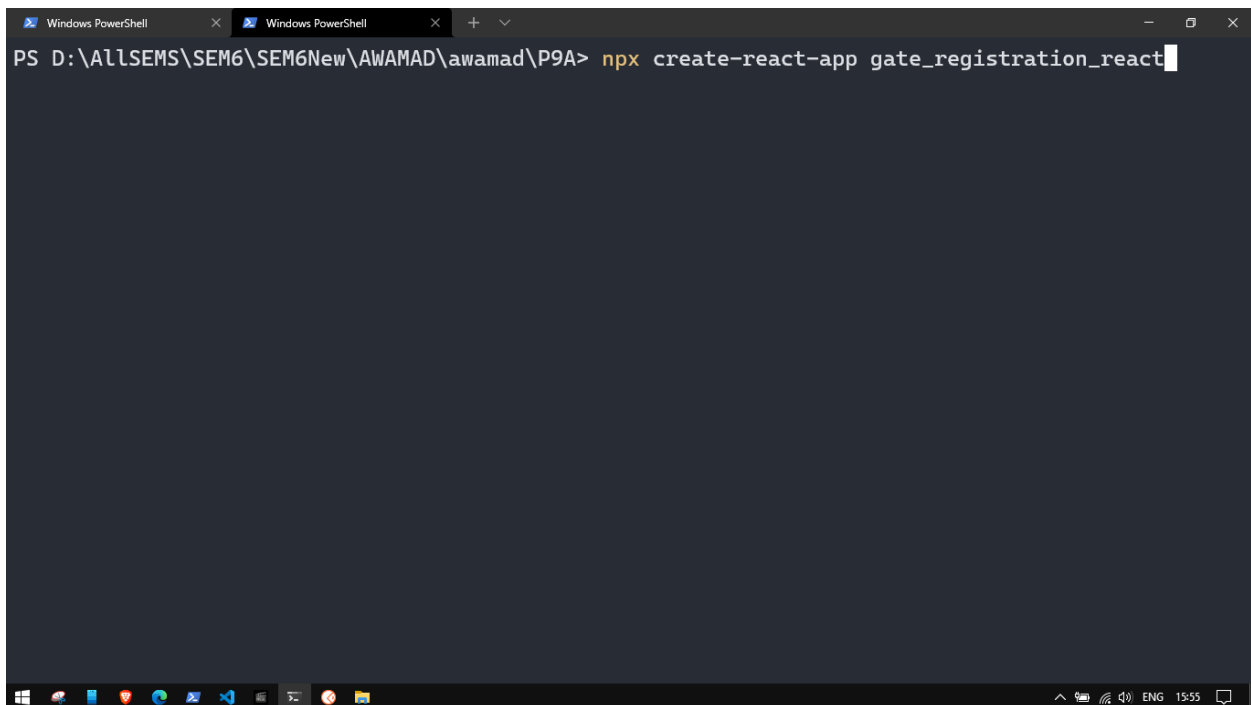


```
index.js - gate_server_express - Visual Studio Code

JS index.js U X
JS index.js > app.get("/getgaterecords") callback
35
36 app.post("/addrecords", (req, res) => {
37     var { name, branch, id_no, mobile, address } = req.body;
38     id_no = id_no.toString();
39     bobile = mobile.toString();
40     try {
41         const connection = mysql.createConnection({
42             host: "localhost",
43             user: "mahendra",
44             password: "mahendra",
45             database: "awamad",
46         });
47         connection.connect();
48         console.log("Connected");
49         connection.query(
50             `INSERT INTO gate(name, branch, id_no, mobile, address) VALUES( '${name}', '${branch}',
51             '${id_no}', '${mobile}', '${address}')`,
52             function (err, result) {
53                 if (err) throw err;
54                 console.log("Data Inserted");
55                 res.send("Record Inserted");
56             }
57         );
58         connection.end();
59     } catch (e) {
60         console.log(e.message)
```

**Information 9:** Post Method on express server for inserting data in gate table

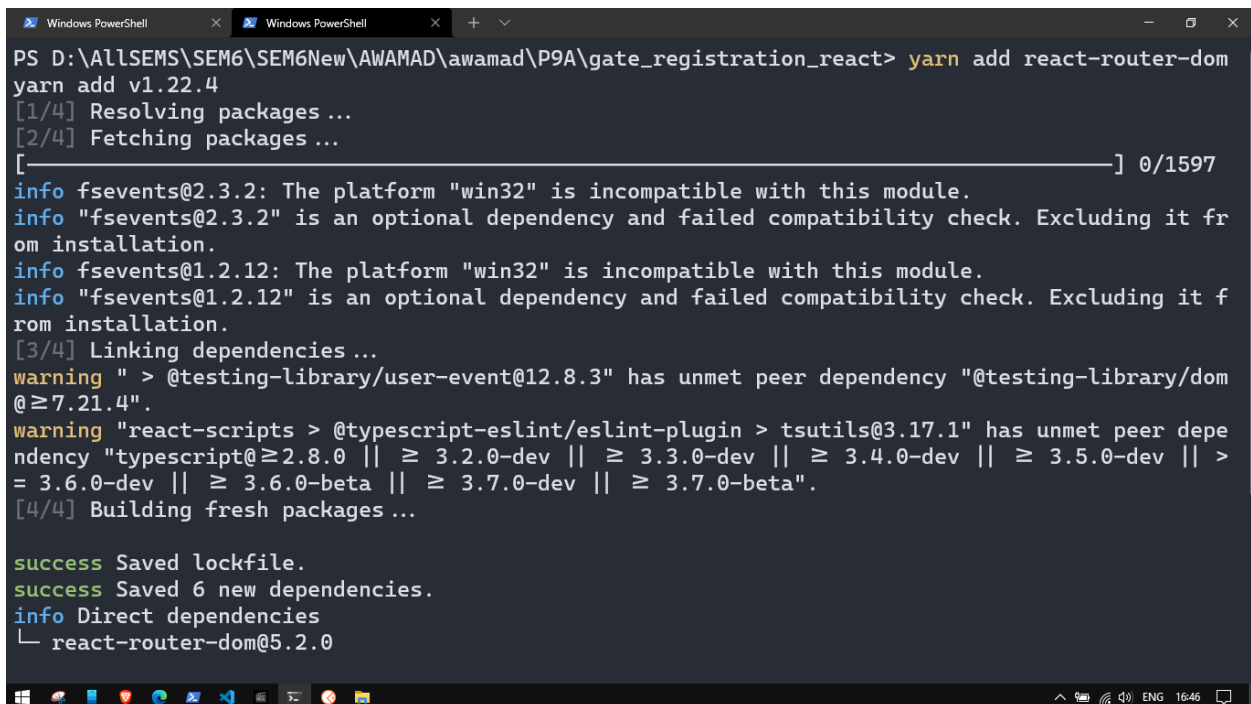
### Screenshot 10:



```
PS D:\AllSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A> npx create-react-app gate_registration_react
```

**Information 10:** Creating React app for gate form

### Screenshot 11 and 12:



```
PS D:\AllSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_registration_react> yarn add react-router-dom
yarn add v1.22.4
[1/4] Resolving packages ...
[2/4] Fetching packages ...
[3/4] Linking dependencies ...
info fsevents@2.3.2: The platform "win32" is incompatible with this module.
info "fsevents@2.3.2" is an optional dependency and failed compatibility check. Excluding it from installation.
info fsevents@1.2.12: The platform "win32" is incompatible with this module.
info "fsevents@1.2.12" is an optional dependency and failed compatibility check. Excluding it from installation.
[3/4] Linking dependencies ...
warning " > @testing-library/user-event@12.8.3" has unmet peer dependency "@testing-library/dom@≥7.21.4".
warning "react-scripts > @typescript-eslint/eslint-plugin > tsutils@3.17.1" has unmet peer dependency "typescript@≥2.8.0 || ≥ 3.2.0-dev || ≥ 3.3.0-dev || ≥ 3.4.0-dev || ≥ 3.5.0-dev || ≥ 3.6.0-dev || ≥ 3.6.0-beta || ≥ 3.7.0-dev || ≥ 3.7.0-beta".
[4/4] Building fresh packages ...

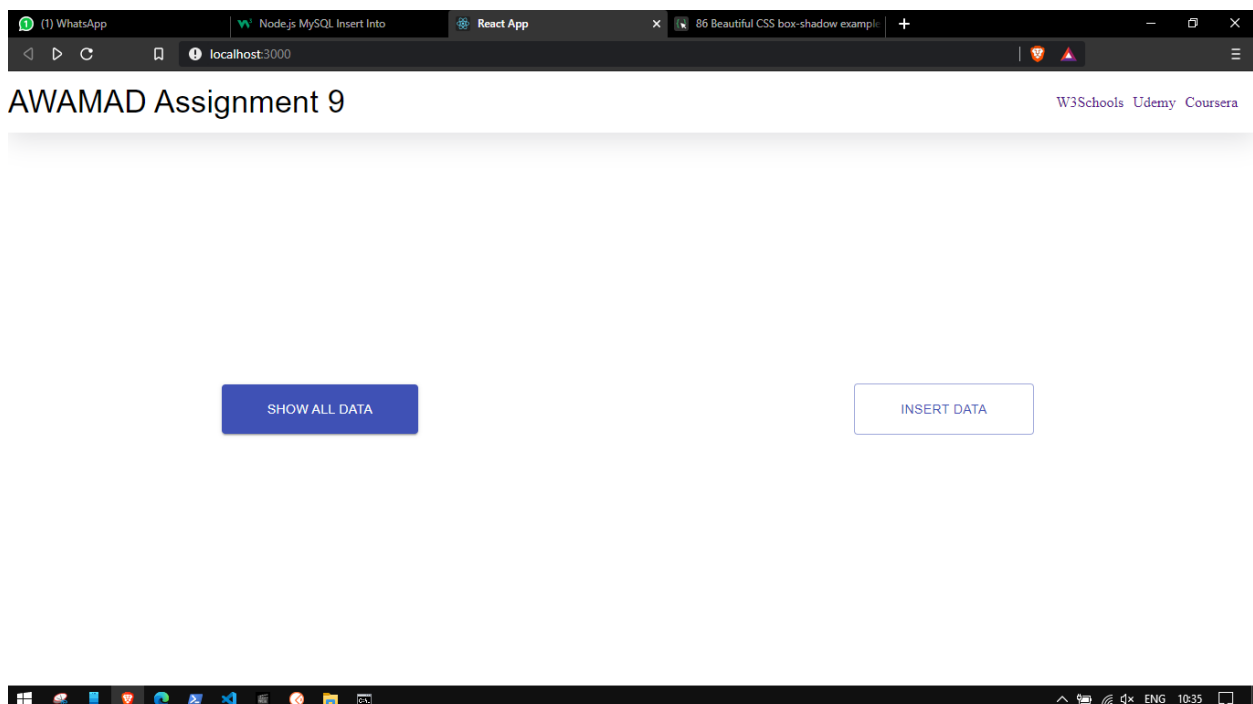
success Saved lockfile.
success Saved 6 new dependencies.
info Direct dependencies
└─ react-router-dom@5.2.0
```

```
PS D:\ALLSEMS\SEM6\SEM6New\AWAMAD\awamad\P9A\gate_registration_react> yarn add axios
yarn add v1.22.4
[1/4] Resolving packages ...
[2/4] Fetching packages ...
info fsevents@2.3.2: The platform "win32" is incompatible with this module.
info "fsevents@2.3.2" is an optional dependency and failed compatibility check. Excluding it from installation.
info fsevents@1.2.12: The platform "win32" is incompatible with this module.
info "fsevents@1.2.12" is an optional dependency and failed compatibility check. Excluding it from installation.
[3/4] Linking dependencies ...
warning " > @testing-library/user-event@12.8.3" has unmet peer dependency "@testing-library/dom@≥7.21.4".
warning "react-scripts > @typescript-eslint/eslint-plugin > tsutils@3.17.1" has unmet peer dependency "typescript@≥2.8.0 || ≥ 3.2.0-dev || ≥ 3.3.0-dev || ≥ 3.4.0-dev || ≥ 3.5.0-dev || ≥ 3.6.0-dev || ≥ 3.6.0-beta || ≥ 3.7.0-dev || ≥ 3.7.0-beta".
[4/4] Building fresh packages ...

success Saved lockfile.
success Saved 2 new dependencies.
info Direct dependencies
└─ axios@0.21.1
info All dependencies
```

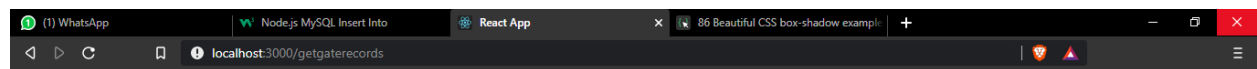
**Information 11 and 12:** Installing axios and react router for network request and routing respectively

**Screenshot 13:**



**Information 13:** Home Page for gate registration

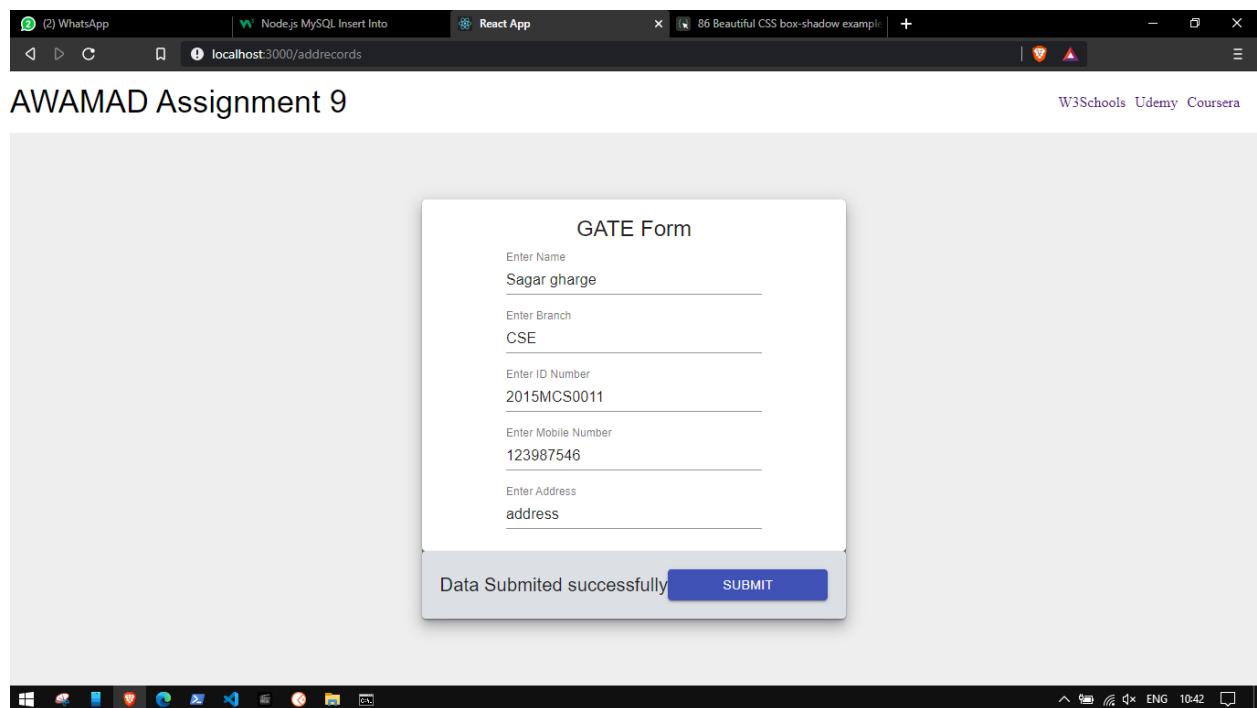
### Screenshot 14:



Studet Name	Student Branch	Student ID	Student Mobile	Student Address
Mahendra Bhimrao Garge	Computer Science and engineering	123456789	98765432	Home No, Street name, city, dist. State
Aniruddha Palekar	Computer Science and engineering	1357924	97531246	Home No, Another Street name, city, dist. State
Mahendra	CSE	123	625723	adbfbdth dfdbbf

**Information 14:** Retrieve data records from gate table on /getgaterecords route

### Screenshot 15:



AWAMAD Assignment 9

W3Schools Udemy Coursera

### GATE Form

Enter Name  
Sagar gcharge

Enter Branch  
CSE

Enter ID Number  
2015MCS0011

Enter Mobile Number  
123987546

Enter Address  
address

Data Submitted successfully **SUBMIT**

**Information 15:** Inserting data in gate table on /addrecords route



**Screenshot 16:**



**Information 16:** Links for educational resources on Homepage