

Module 4 Activity 1: Protecting Resources

Mohiddeen Vilak Mohammad

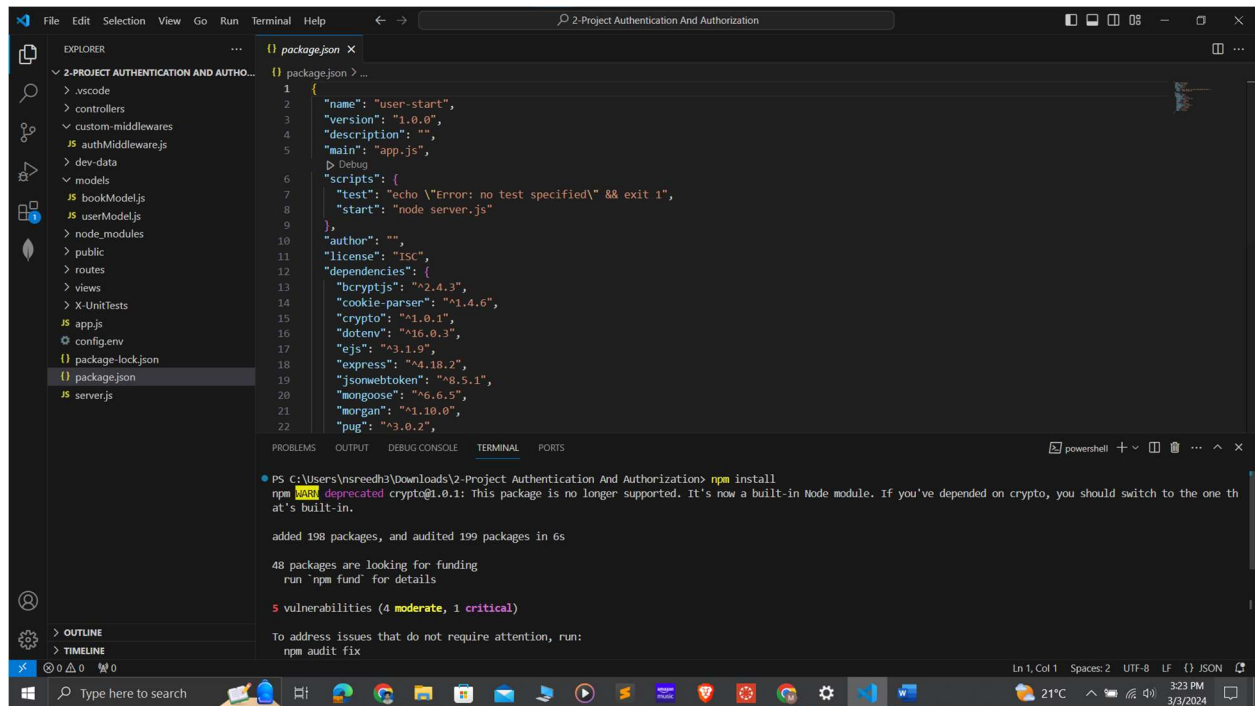
Department of Information Technology, Arizona State University

IFT 554: Middleware Programming & Database Security

Dinesh Sthapit

March 3, 2024

Figure 1:



The screenshot shows the Visual Studio Code interface with the Explorer view on the left displaying the project structure. The main editor shows the `package.json` file. The terminal at the bottom shows the output of the `npm install` command.

```
package.json
{
  "name": "user_start",
  "version": "1.0.0",
  "description": "",
  "main": "app.js",
  "scripts": {
    "test": "echo \\Error: no test specified\\ && exit 1",
    "start": "node server.js"
  },
  "author": "",
  "license": "ISC",
  "dependencies": {
    "bcryptjs": "^2.4.3",
    "cookie-parser": "^1.4.6",
    "crypto": "^1.0.1",
    "dotenv": "^16.0.3",
    "ejs": "^3.1.9",
    "express": "^4.18.2",
    "jsonwebtoken": "^8.5.1",
    "mongoose": "^6.6.5",
    "morgan": "^1.10.0",
    "pug": "^3.0.2"
  }
}
```

```
PS C:\Users\nsreedh3\Downloads\2-Project Authentication And Authorization> npm install
npm WARN deprecated crypto@1.0.1: This package is no longer supported. It's now a built-in Node module. If you've depended on crypto, you should switch to the one that's built-in.

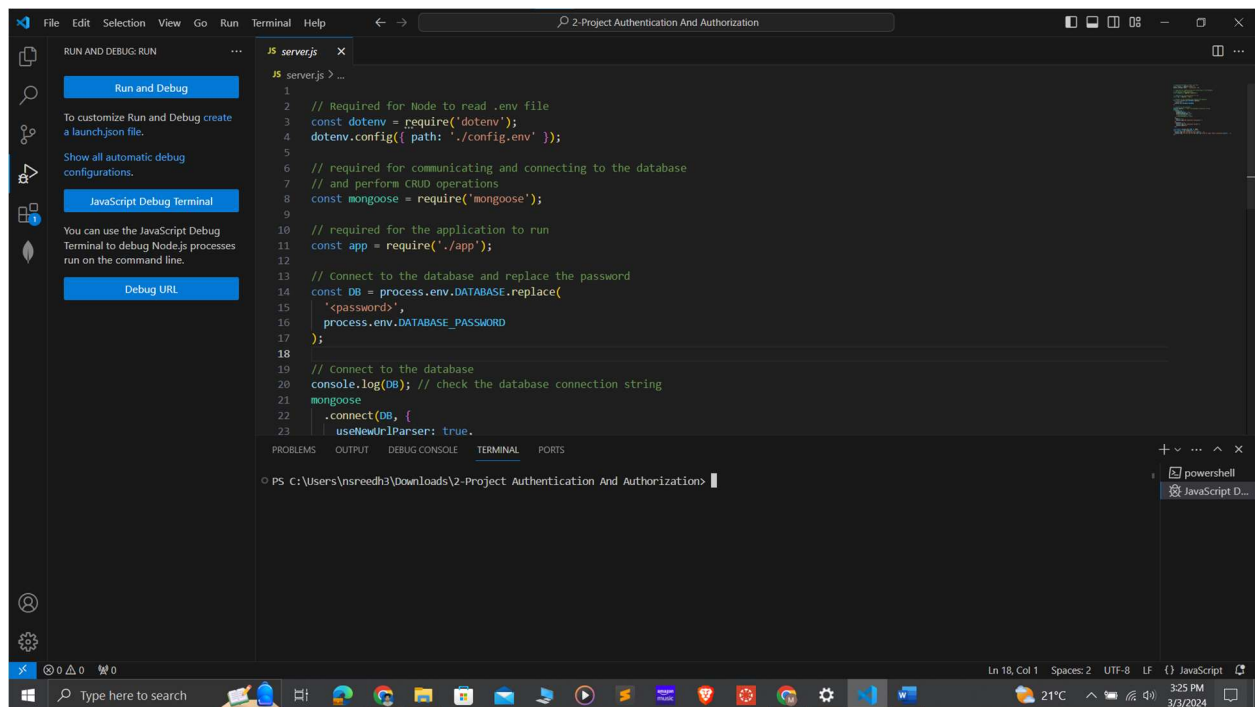
added 198 packages, and audited 199 packages in 6s

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

5 vulnerabilities (4 moderate, 1 critical)

To address issues that do not require attention, run:
  npm audit fix
```

Figure 2:



The screenshot shows the Visual Studio Code interface with the Explorer view on the left displaying the project structure. The main editor shows the `server.js` file. The terminal at the bottom shows the output of the `node server.js` command.

```
server.js
// Required for Node to read .env file
const dotenv = require('dotenv');
dotenv.config({ path: './config.env' });

// required for communicating and connecting to the database
// and perform CRUD operations
const mongoose = require('mongoose');

// required for the application to run
const app = require('./app');

// Connect to the database and replace the password
const DB = process.env.DATABASE.replace(
  '<password>',
  process.env.DATABASE_PASSWORD
);

// Connect to the database
console.log(DB); // check the database connection string
mongoose
  .connect(DB, {
    useNewUrlParser: true,
  })
  .then(() => {
    app.listen(3000, () => {
      console.log('Server is running on port 3000');
    });
  })
  .catch((err) => console.log(err));
```

```
PS C:\Users\nsreedh3\Downloads\2-Project Authentication And Authorization> node server.js
```

Figure 3:

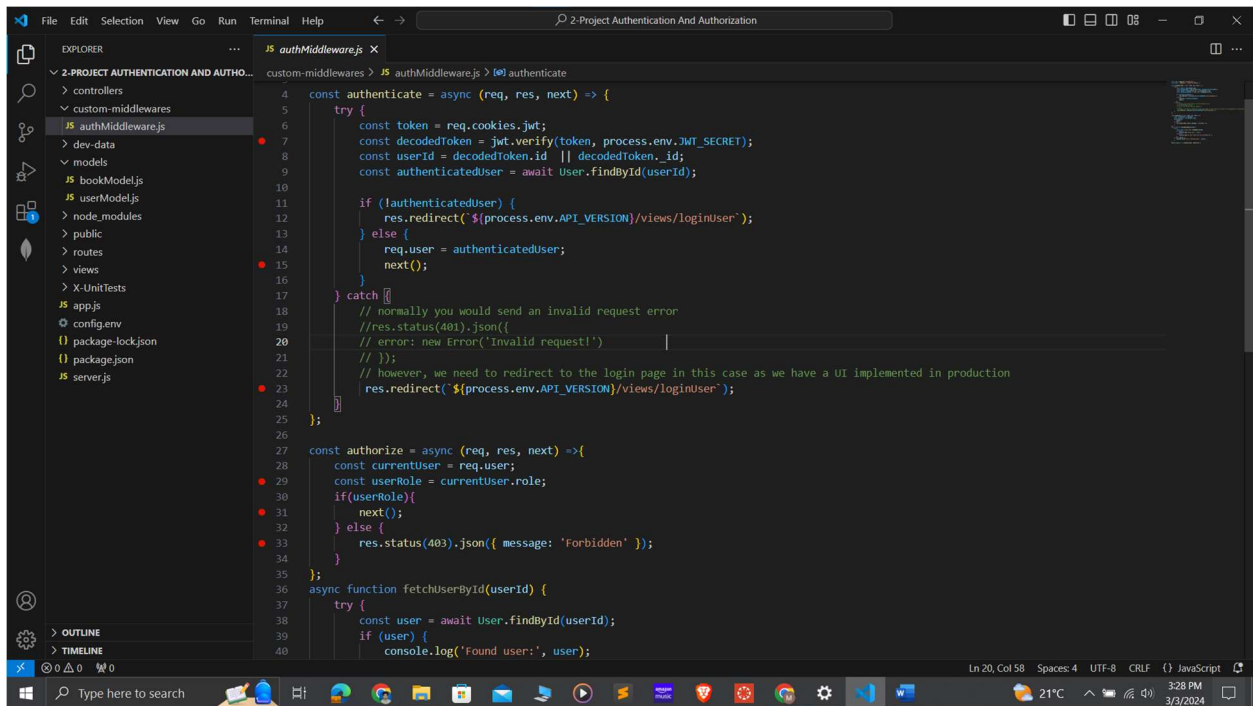


Figure 4:

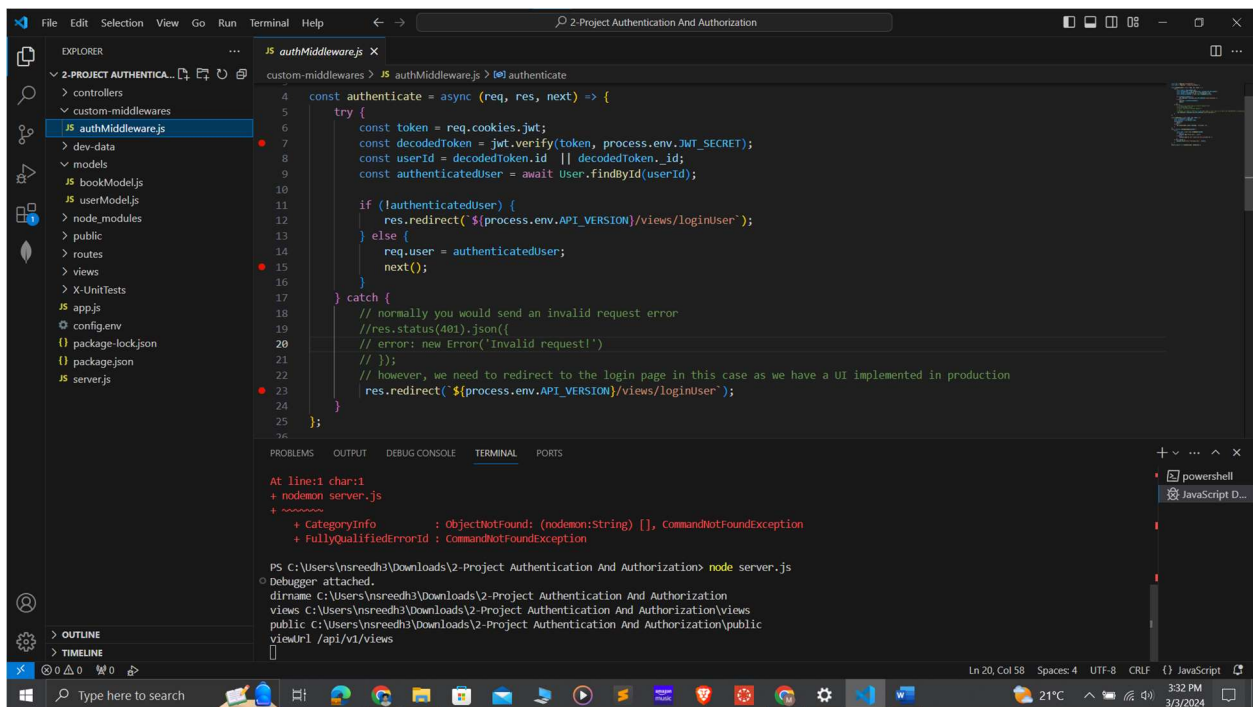


Figure 5:

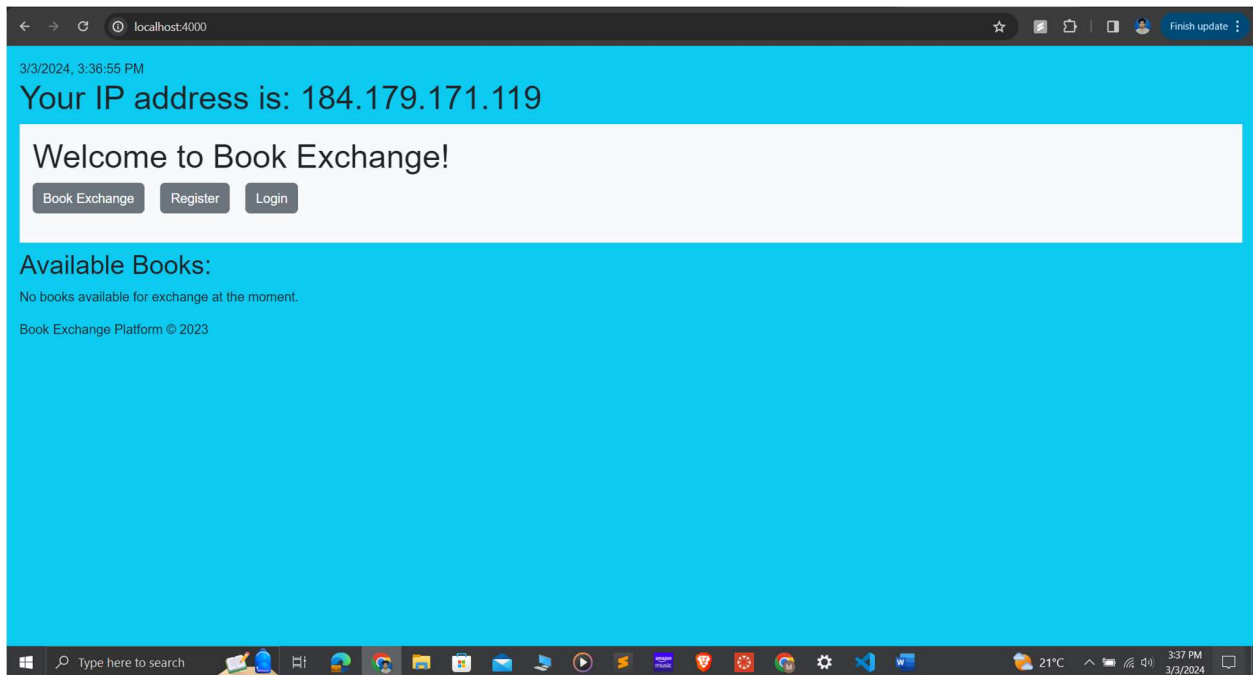


Figure 6:

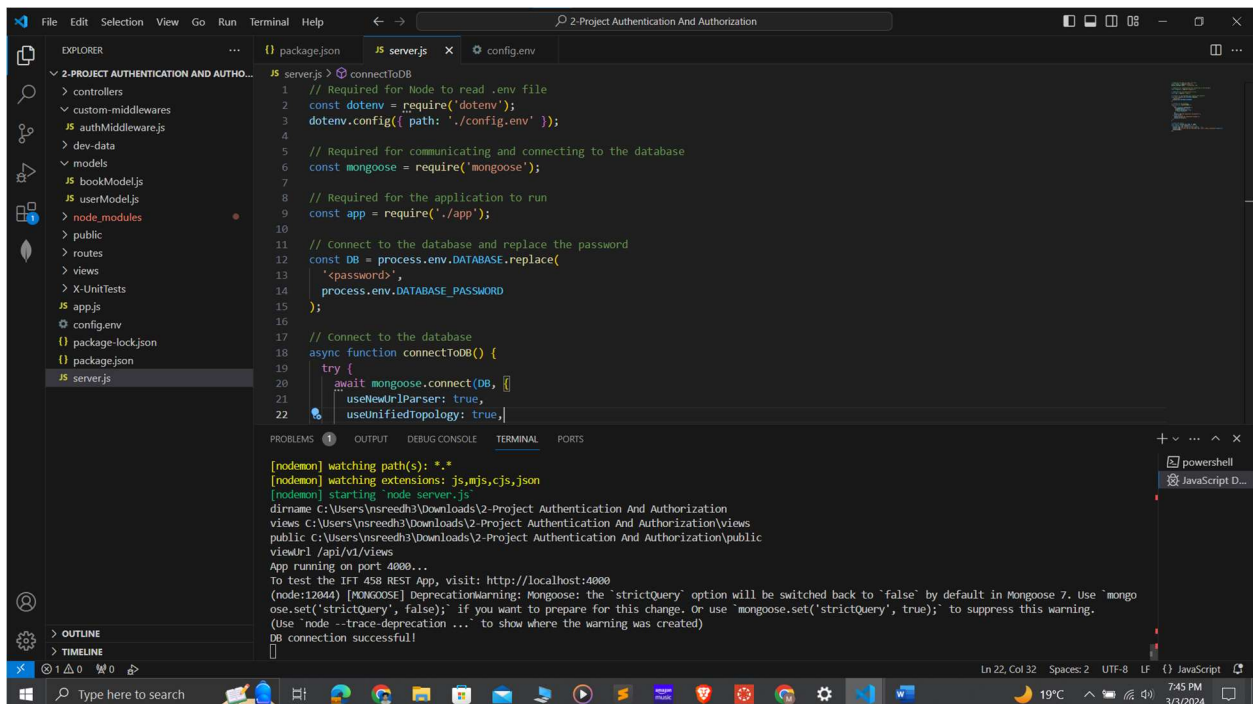


Figure 7:

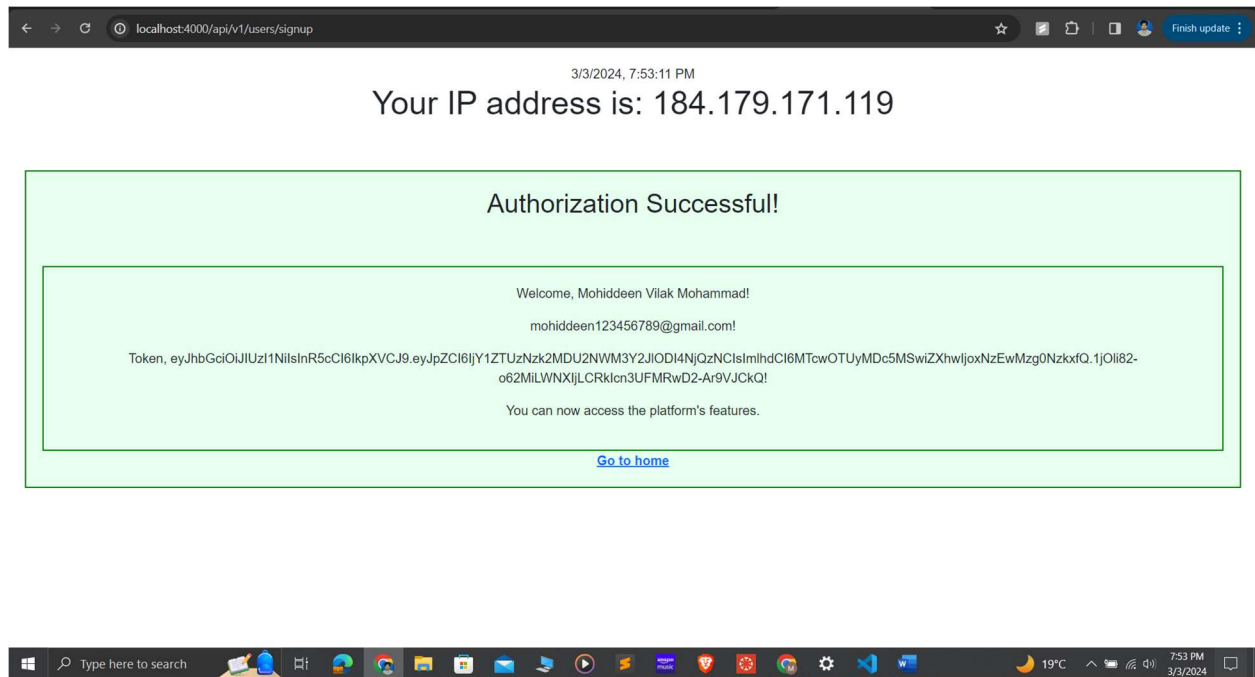


Figure 8:

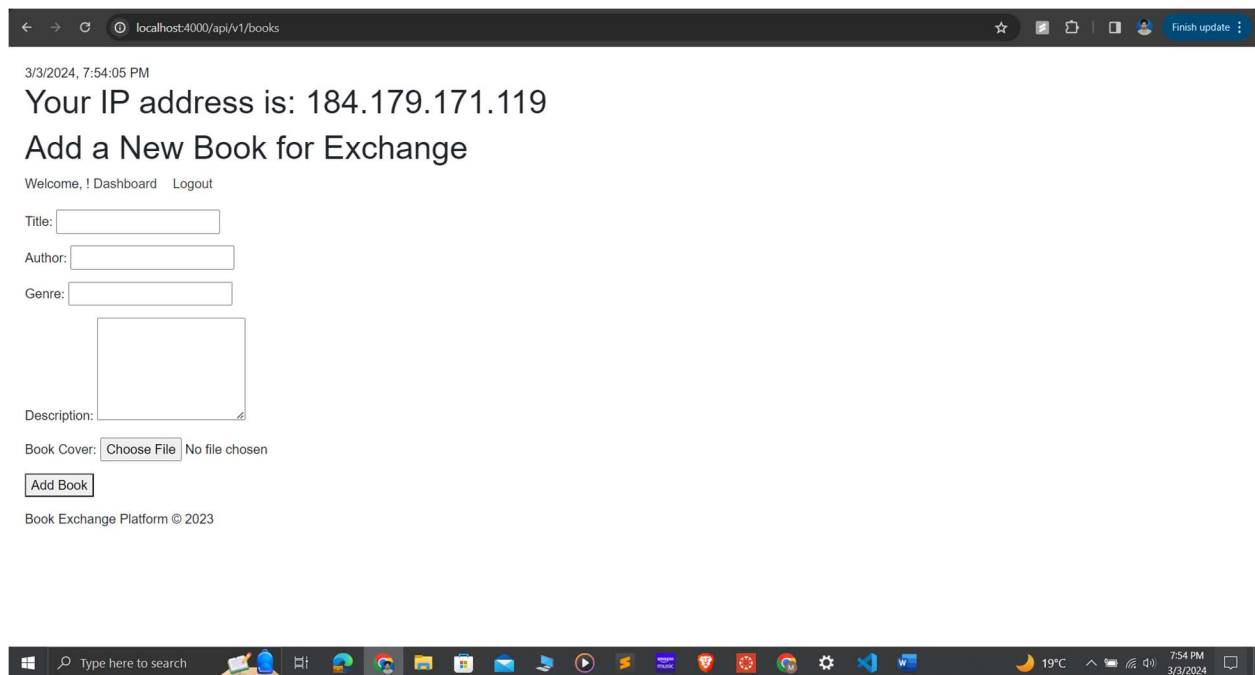


Figure 9:

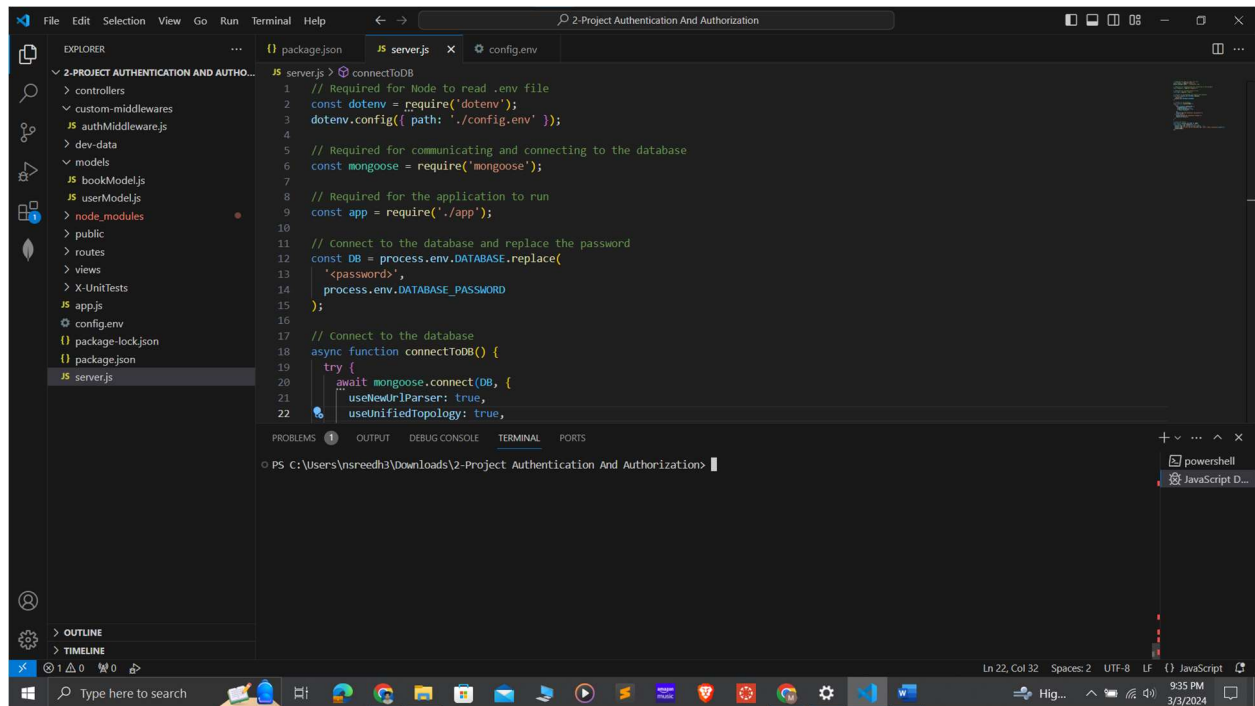


Figure 10:

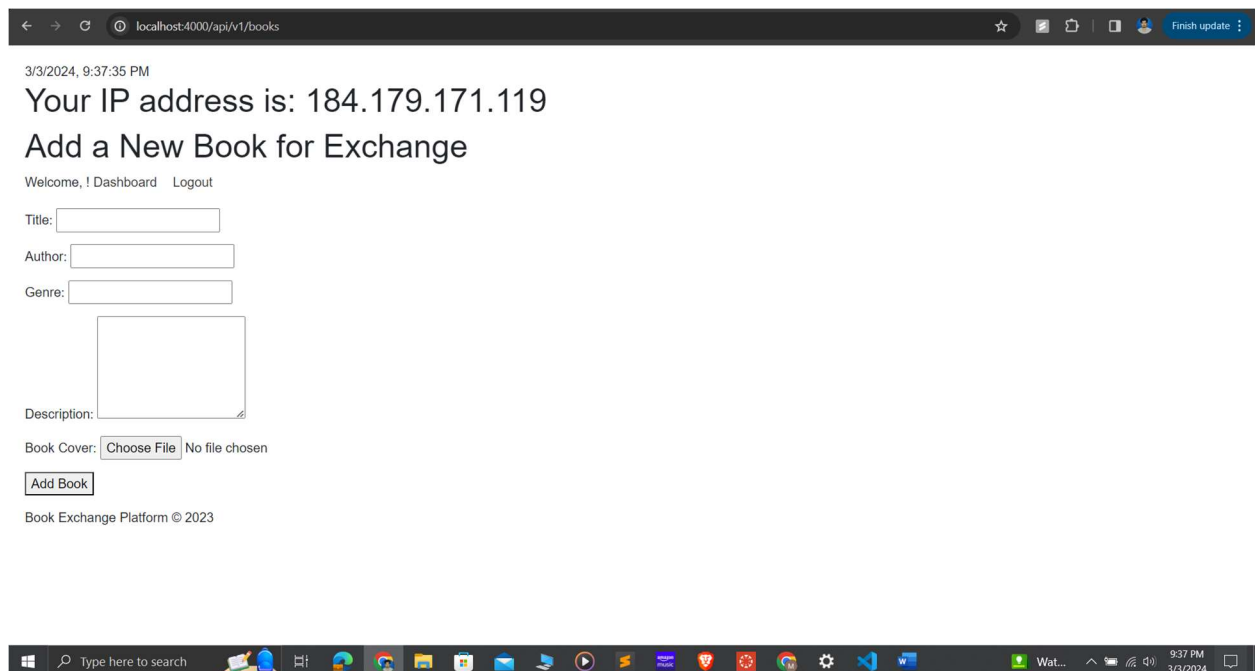


Figure 11:

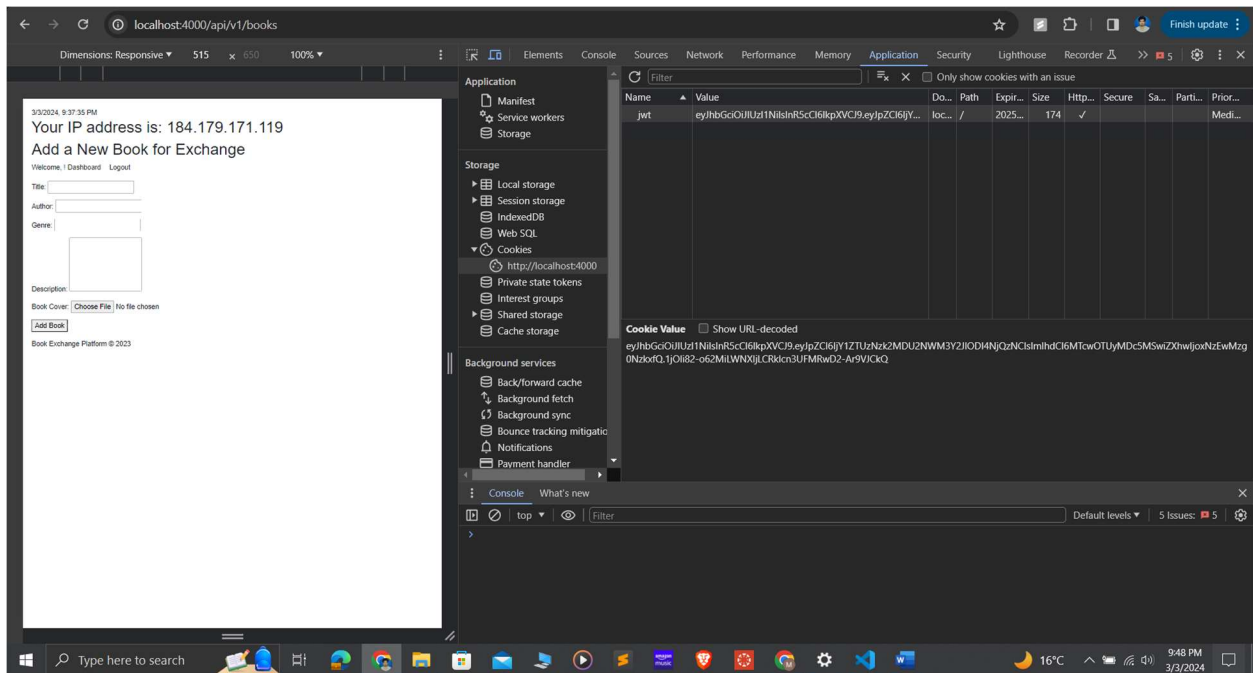


Figure 12:

