

Module 2 Activity 1: Basic Static Web Project Using Node.JS and EJS

Brandon Trinkle

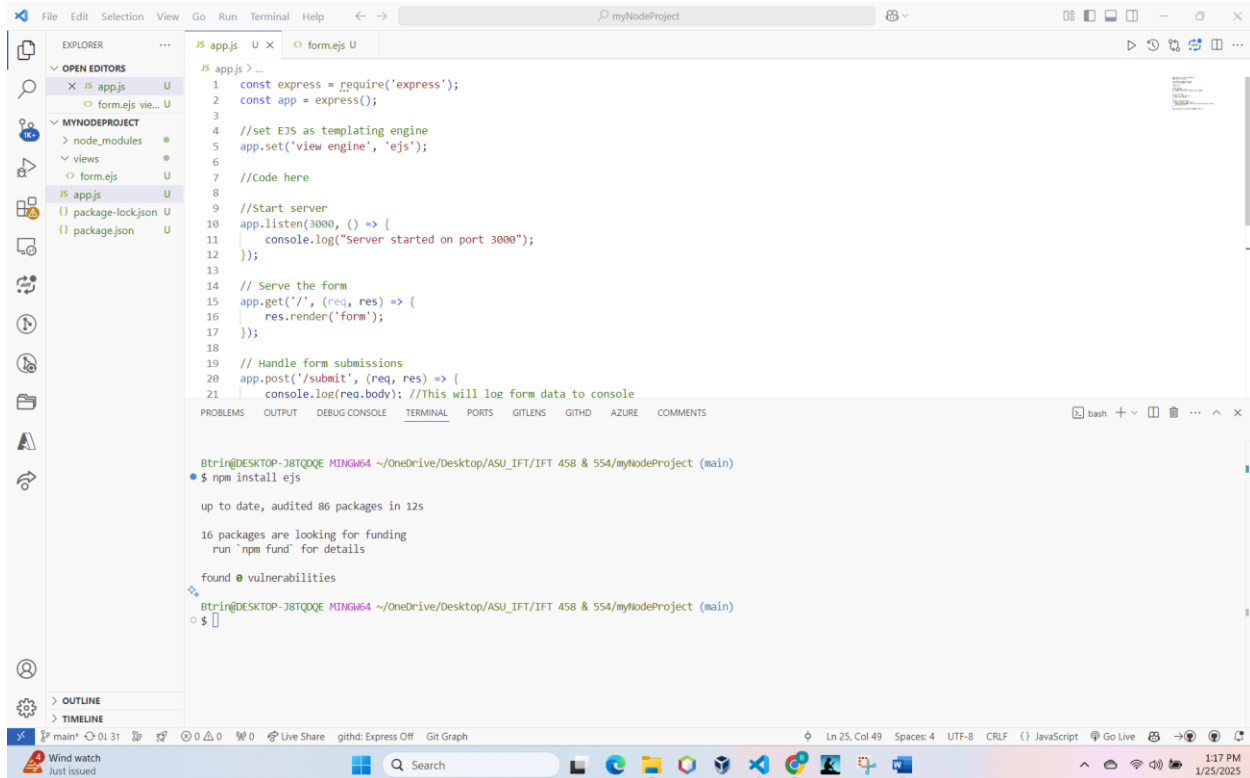
IFT 458: Middleware Prog & Database Sec

Professor: Dinesh Sthapit

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Module 2 Activity 1: Basic Static Web Project Using Node.JS and EJS

1. Terminal window demonstrating the installation of EJS using the command



The screenshot shows the Visual Studio Code interface with a terminal window open at the bottom. The terminal displays the command `npm install ejs` and its output, which includes the number of packages audited, the time taken, and the number of vulnerabilities found. The output is as follows:

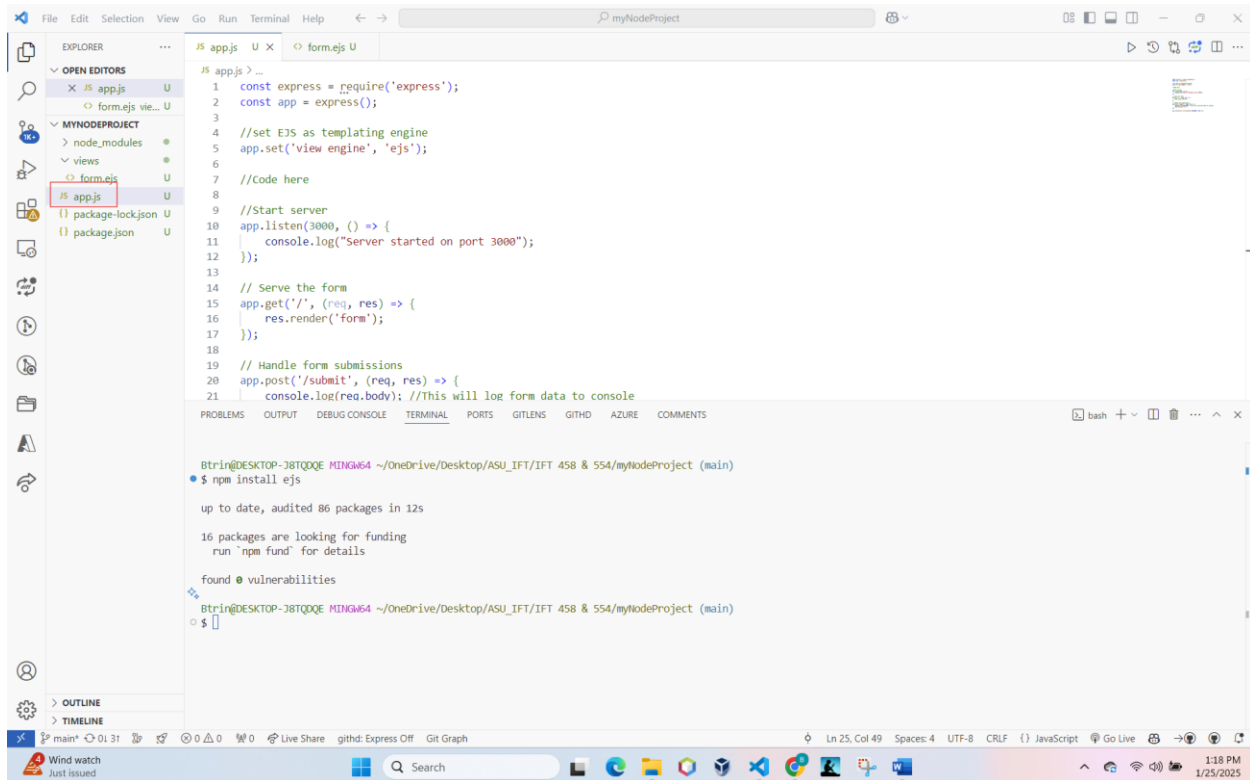
```
bttr@DESKTOP-38TQOQE MINGW64 ~/OneDrive/Desktop/ASU_IPT/IFT 458 & 554/myNodeProject (main)
$ npm install ejs

up to date, audited 86 packages in 12s

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

found 0 vulnerabilities
bttr@DESKTOP-38TQOQE MINGW64 ~/OneDrive/Desktop/ASU_IPT/IFT 458 & 554/myNodeProject (main)
$
```

2. Visual Studio Code explorer displaying the creation of a new file named "app.js" within the project folder.



The screenshot shows the Visual Studio Code interface with the 'app.js' file open in the editor. The code in 'app.js' is as follows:

```

1 const express = require('express');
2 const app = express();
3
4 //set EJS as templating engine
5 app.set('view engine', 'ejs');
6
7 //Code here
8
9 //Start server
10 app.listen(3000, () => {
11   console.log("Server started on port 3000");
12 });
13
14 // Serve the form
15 app.get('/', (req, res) => {
16   res.render('form');
17 });
18
19 // Handle form submissions
20 app.post('/submit', (req, res) => {
21   console.log(req.body); //This will log form data to console
22 });

```

The terminal output shows the command `$ npm install ejs` and its output:

```

Btr@DESKTOP-38TQOQE MINGW64 ~/OneDrive/Desktop/ASU_IPT/IFT 458 & 554/myNodeProject (main)
$ npm install ejs

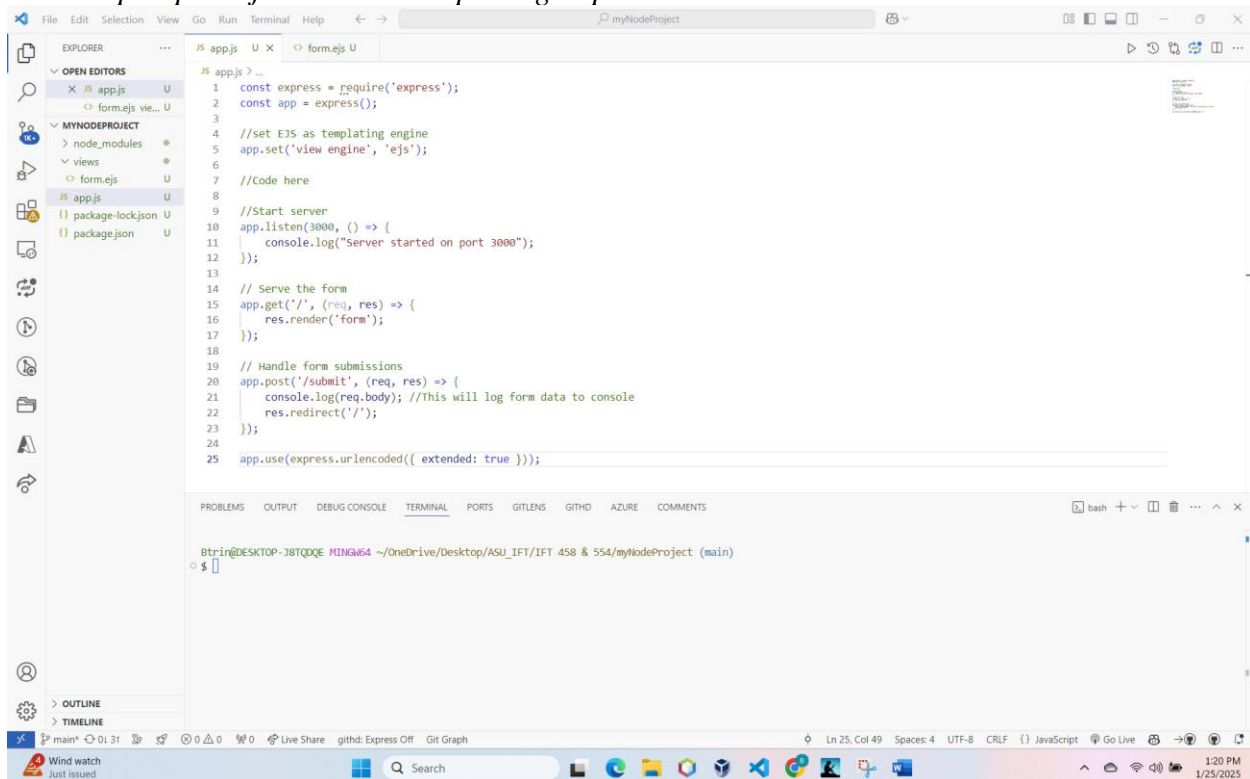
up to date, audited 86 packages in 12s

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

found 0 vulnerabilities

```

3. Editor view in Visual Studio Code showing the opened "app.js" file with code for setting up Express.js server and importing Express module.



The screenshot shows the Visual Studio Code interface with the 'app.js' file open in the editor. The code in 'app.js' is as follows:

```

1 const express = require('express');
2 const app = express();
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15 app.get('/', (req, res) => {
16   res.render('form');
17 });
18
19 // Handle form submissions
20 app.post('/submit', (req, res) => {
21   console.log(req.body); //This will log form data to console
22   res.redirect('/');
23 });
24
25 app.use(express.urlencoded({ extended: true }));

```

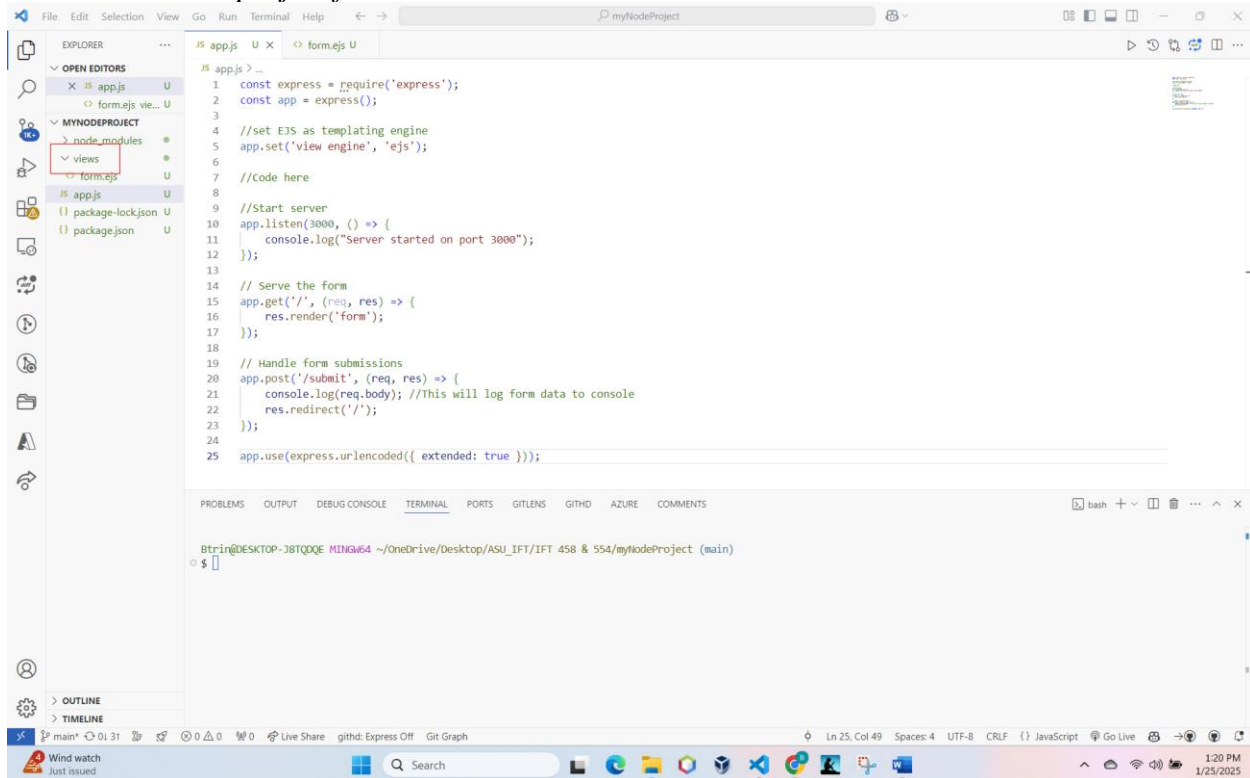
The terminal output shows the command `$ npm install ejs` and its output:

```

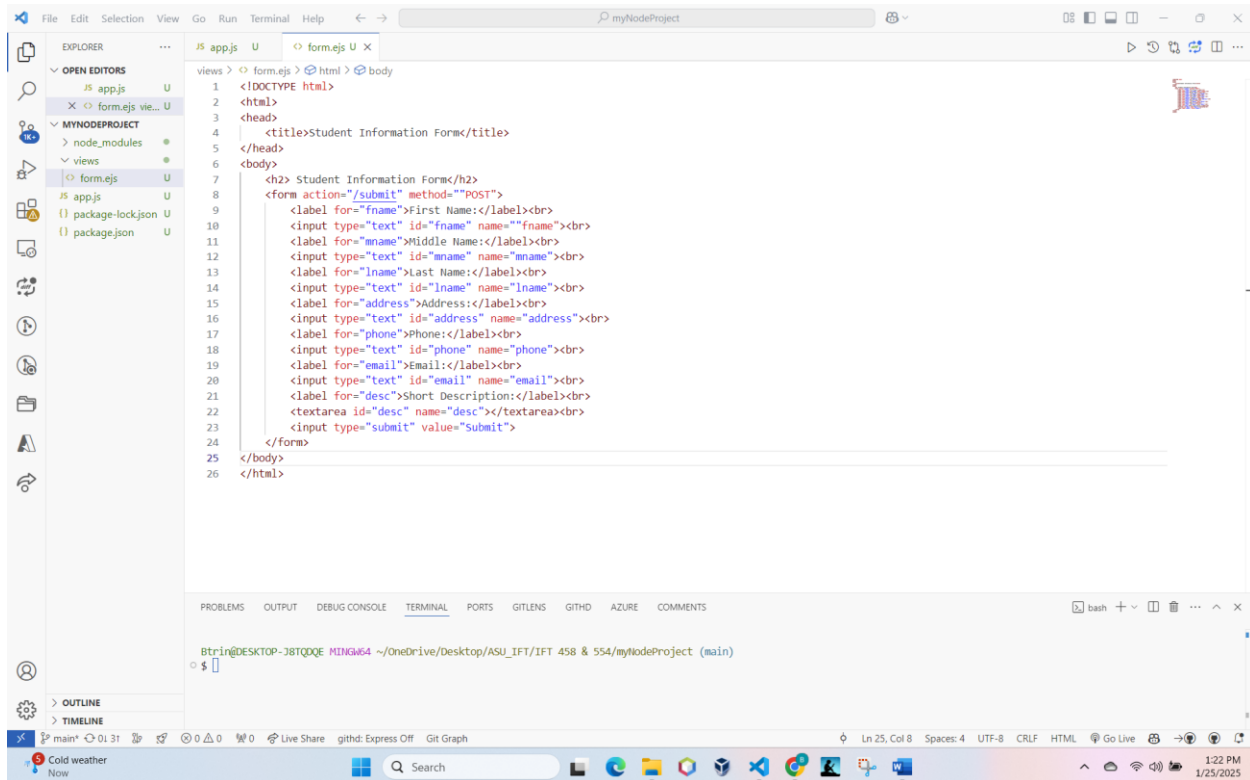
Btr@DESKTOP-38TQOQE MINGW64 ~/OneDrive/Desktop/ASU_IPT/IFT 458 & 554/myNodeProject (main)
$ npm install ejs

```

4. Visual Studio Code explorer displaying the creation of a new folder named "views" within the project folder.



5. Visual Studio Code explorer displaying the creation of a new EJS file named "form.ejs" inside the "views" folder, showcasing HTML code for the form.

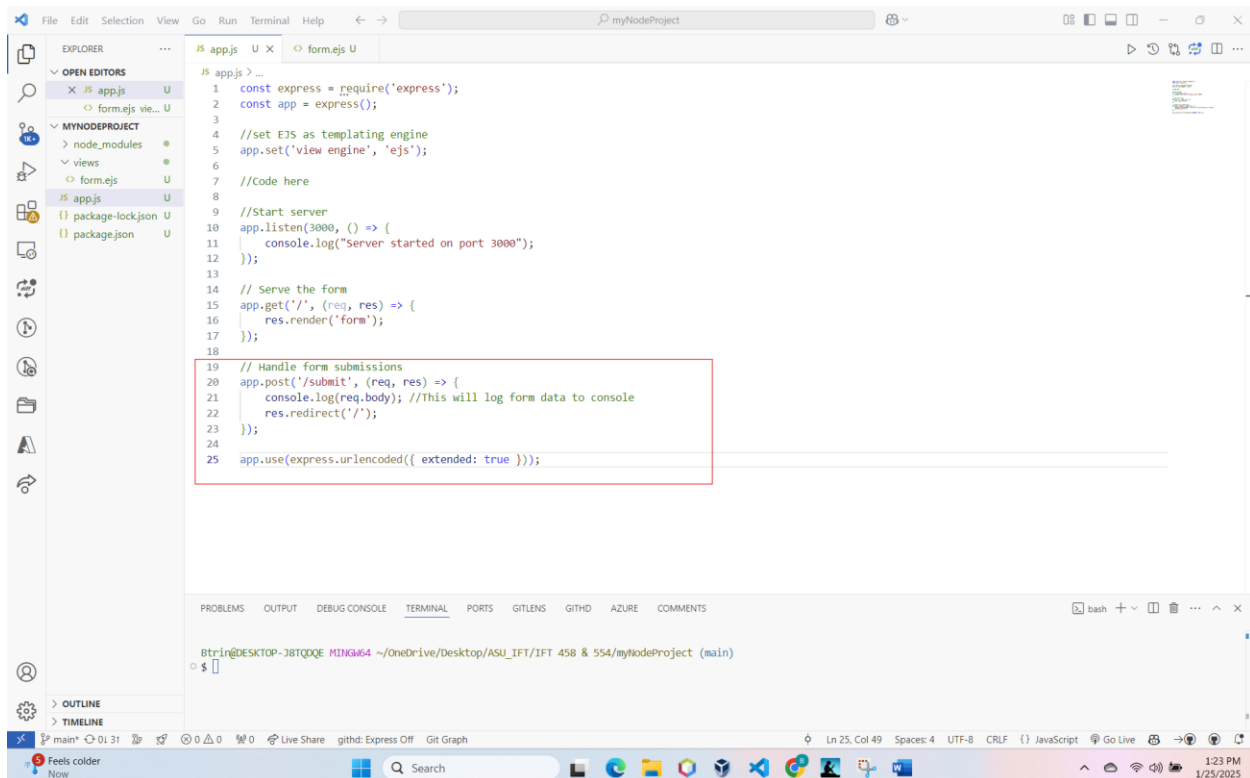


```

1 <!DOCTYPE html>
2 <html>
3 <head>
4 | <title>Student Information Form</title>
5 </head>
6 <body>
7 | <h2> Student Information Form</h2>
8 | <form action="/submit" method="POST">
9 |   <label for="fname">First Name:</label><br>
10 |   <input type="text" id="fname" name="fname"><br>
11 |   <label for="mname">Middle Name:</label><br>
12 |   <input type="text" id="mname" name="mname"><br>
13 |   <label for="lname">Last Name:</label><br>
14 |   <input type="text" id="lname" name="lname"><br>
15 |   <label for="address">Address:</label><br>
16 |   <input type="text" id="address" name="address"><br>
17 |   <label for="phone">Phone:</label><br>
18 |   <input type="text" id="phone" name="phone"><br>
19 |   <label for="email">Email:</label><br>
20 |   <input type="text" id="email" name="email"><br>
21 |   <label for="desc">Short Description:</label><br>
22 |   <textarea id="desc" name="desc"></textarea><br>
23 |   <input type="submit" value="Submit">
24 | </form>
25 </body>
26 </html>

```

6. Visual Studio Code explorer or editor showcasing the added code in "app.js" to handle form submissions and parse incoming request bodies.



```

1 const express = require('express');
2 const app = express();
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6
7 //Code here
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9 //Start server
10 app.listen(3000, () => {
11 | console.log("Server started on port 3000");
12 | });
13
14 // Serve the form
15 app.get('/', (req, res) => {
16 | res.render('form');
17 | });
18
19 // Handle form submissions
20 app.post('/submit', (req, res) => {
21 | console.log(req.body); //This will log form data to console
22 | res.redirect('/');
23 | });
24
25 app.use(express.urlencoded({ extended: true }));

```

7. Terminal window executing the command `node app.js` to run the Node.js application and display the server running on <http://localhost:3000>

```

1  const express = require('express');
2  const app = express();
3
4  //set EJS as templating engine
5  app.set('view engine', 'ejs');
6
7  //Code here
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20 app.post('/submit', (req, res) => {
21   console.log(req.body); //This will log form data to console
22   res.redirect('/');
23 });
24
25 app.use(express.urlencoded({ extended: true }));

```

```

Btrn@DESKTOP-38TQDQE MINGW64 ~/OneDrive/Desktop/ASU_IFT/IFT 458 & 554/myNodeProject (main)
$ node app.js
Server started on port 3000

```

Student Information Form

First Name:

Middle Name:

Last Name:

Address:

Phone:

Email:

Short Description: