

Day 47



"Web Development + Security"

ejs Template Engine in Express:

What is EJS?

EJS (Embedded JavaScript) is a template engine for Node.js that allows you to generate dynamic HTML using JavaScript.

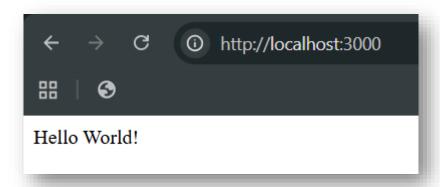
It lets you:

- Write HTML pages that can include variables, loops, and conditions
- Embed JavaScript code inside HTML using <%= %> or <% %>
- Separate your server logic (Express) from your frontend presentation (HTML)

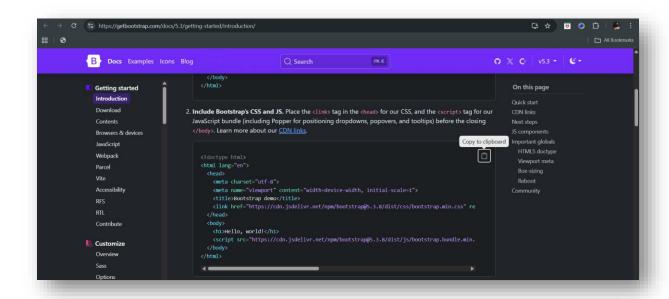
Example: simplest template we are using since last few express js videos

Index.js:

Output:



Now, we are introducing Bootstrap in the code. For which we will copy the template from the bootstrap docs. Which be this:



Now, in order to include it, we will create a folder named "templates" and inside I will create an "index.html" page: and just paste the copied code. As shown below:

```
| Templates | Complete | Complet
```

Also, we can just copy paste the navbar code from the docs of bootstrap and run:

Output: clearly it is on different server.



Now, suppose we want that instead of content of index.js we want that index.html should be shown at the express server, then we will do by including the res.sendFile(). As shown below:

Index.html: as same as above

Index.js:

```
Js index.js > ② app.listen() callback
1    const express = require('express')
2    const app = express()
3    const port = 3000
4
5    app.get('/', (req, res) => {
6       res.sendFile("templates/index.html", {root: __dirname})
7    })
8
9    app.listen(port, () => {
10       console.log(`Example app listening on port ${port}`)
11    })
```

Output: clearly now navbar is on the express js server



Now, suppose we fetched something from the database (which we will understand later) then we want that we shall be able to make it enter in the template. So, does this means we have to make index.html for every page? No. We will use EJS here.

Now, to install ejs we will use the command: npm install ejs

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

• PS E:\FullStackDevelopment\Day41-50\Day47> npm install ejs
added 8 packages, and audited 77 packages in 2s

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

found 0 vulnerabilities
```

Now, to specify that we want to use ejs template engine, we will write the code: app.set('view engine', 'ejs');

```
Js index.js > ② app.listen() callback
1     const express = require('express')
2     const app = express()
3     const port = 3000
4
5     app.search('view engine', 'ejs')
6     app.get('/', (req, res) => {
7         res.sendFile("templates/index.html", {root: __dirname})
8     })
9
10     app.listen(port, () => {
1         console.log(`Example app listening on port ${port}`)
12     })
```

But is this enough? No, we need to make some major changes in the index.js such that it will start sending the content to the index.html.

---The End--