

BACKEND: MERN STACK BOOTCAMP

Assignment No: 01

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Date: 6/3/2025

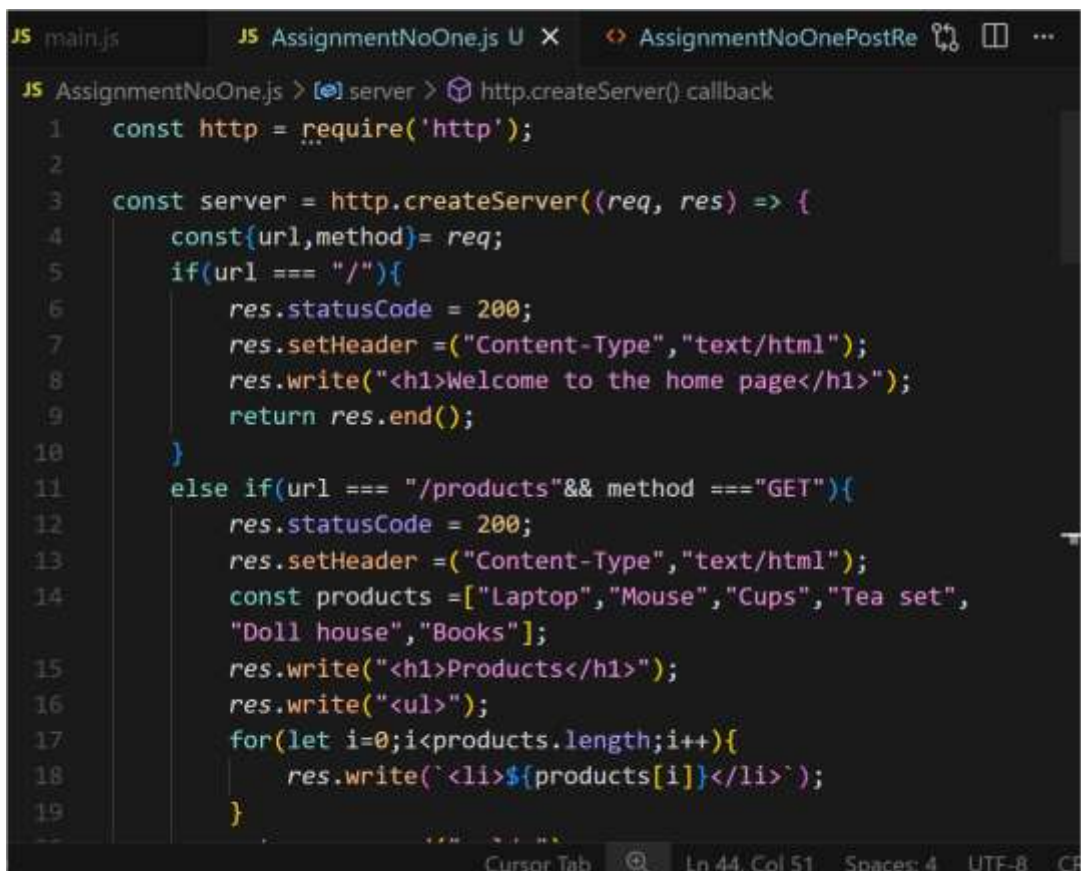
Question:

Create a basic web server using core Node JS that can listen to requests and response to it. The server should have the following responses on different routes

1. `/`: Return a welcoming message.
2. `GET:/products`: Create a product array and send back all those into unordered list.
3. `POST:/products`: Send a message saying **Creating a product functionality is not implemented yet.**
4. `/blog`: Return a blog page having heading and paragraph.

Return **Route Not Found** with status code of **404** on all other routes.

Code Implementation:



```
JS main.js JS AssignmentNoOne.js U X AssignmentNoOnePostRe
JS AssignmentNoOne.js > [server] http.createServer() callback
1  const http = require('http');
2
3  const server = http.createServer((req, res) => {
4    const {url, method} = req;
5    if(url === "/"){
6      res.statusCode = 200;
7      res.setHeader("Content-Type", "text/html");
8      res.write("<h1>Welcome to the home page</h1>");
9      return res.end();
10   }
11   else if(url === "/products"&& method === "GET"){
12     res.statusCode = 200;
13     res.setHeader("Content-Type", "text/html");
14     const products = ["Laptop", "Mouse", "Cups", "Tea set",
15                       "Doll house", "Books"];
16     res.write("<h1>Products</h1>");
17     res.write("<ul>");
18     for(let i=0; i<products.length; i++){
19       res.write("<li>${products[i]}</li>");
20     }
21   }
22   // ...
23 }
```

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```
JS main.js JS AssignmentNoOne.js U X AssignmentNoOnePostRe
JS AssignmentNoOne.js > [O] server > http.createServer() callback
3  const server = http.createServer((req, res) => {
18      res.write(`<li>${products[i]}</li>`);
19  }
20  return res.end("<ul/>");
21  }
22  else if(url === "/products" && method === "POST"){
23      res.statusCode = 200;
24      res.setHeader("content-Type", "text/html");
25      res.write("<h1>Creating a product functionality is
not implemented yet</h1>");
26      return res.end();
27  }
28  else if(url === "/blogs"){
29      res.statusCode = 200;
30      res.setHeader("Content-Type", "text/html");
31      res.write("<h1>Blog: Criminal Psychology</h1>");
32      res.write("<h2>How criminals are made?!</h2>");
33      res.write("<p>There are two types of criminals on
the basis of their origin</p>");
34      res.write("<ul>");
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```

```
JS main.js JS AssignmentNoOne.js U X AssignmentNoOnePostRe
JS AssignmentNoOne.js > [O] server > http.createServer() callback
3  const server = http.createServer((req, res) => {
35      res.write("<li>Born criminals</li>");
36      res.write("<li>Made criminals</li>");
37      res.write("</ul>");
38
39      res.write("<h3>Made criminals</h3>");
40      res.write("<p>There are four basic aspects of
psychological theories of crime, which say that
crime is result of failures in psychological
development, learned behaviors of aggression and
violence, inherent personality traits, and the
relationship of criminality to mental illness.</
p>");
41
42      res.write("<h3>Born criminals</h3>");
43      res.write("<p>Some people are born with a genetic
predisposition to criminal behavior. This is
believed to be due to a combination of factors,
including heredity, environment, and upbringing.</
p>");
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```

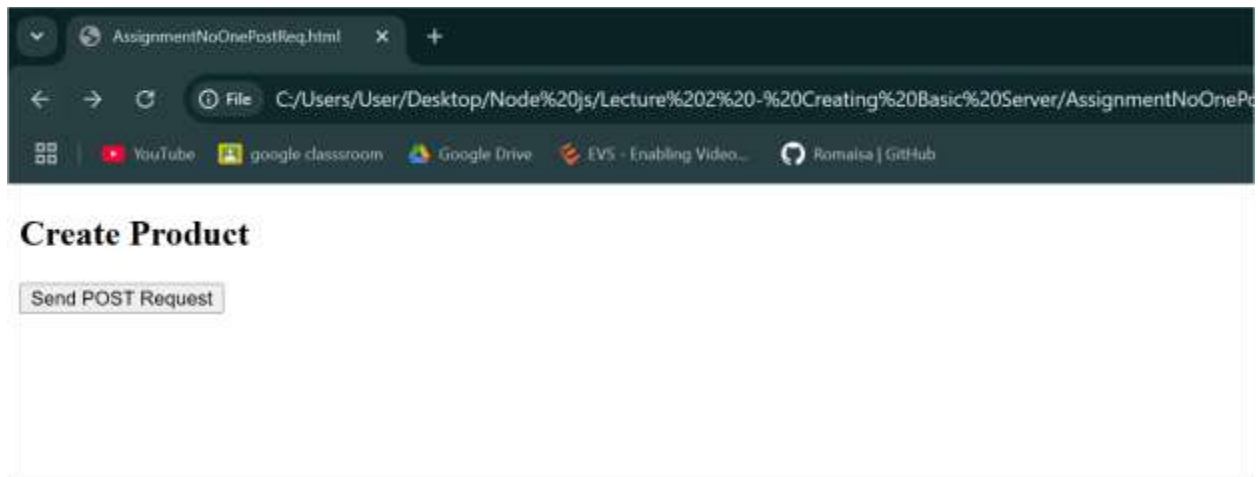
```
JS main.js JS AssignmentNoOne.js U X AssignmentNoOnePostRe
JS AssignmentNoOne.js > server > http.createServer() callback
3 const server = http.createServer((req, res) => {
44     res.write("<h4>XXY THEORY OF CRIMINALITY</h4>")
45     res.write("<p>The XYY (supermale) chromosomal
syndrome may act on the brain's limbic system
(which regulates man's most primitive drives,
including his impulses toward violence) and somehow
help trigger violent criminal acts. Thus the myth
persisted that males with an extra Y chromosome
were likely to manifest excessive violence and
other undesirable social traits.")
46     return res.end("</p>");
47 }
48 else{
49
50     res.statusCode = 404;
51     res.setHeader("Content-Type", "text/html");
52     res.write("<h1>Route Not Found: 404</h1>")
53     res.end();
54 }
55 })

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56
57 server.listen(4000);
```

```
<!DOCTYPE html>
<html>
  <body>
    <h2>Create Product</h2>
    <form action="http://localhost:4000/products" method="POST">
      <button type="submit">Send POST Request</button>
    </form>
  </body>
</html>
```

Output:



On clicking the button

