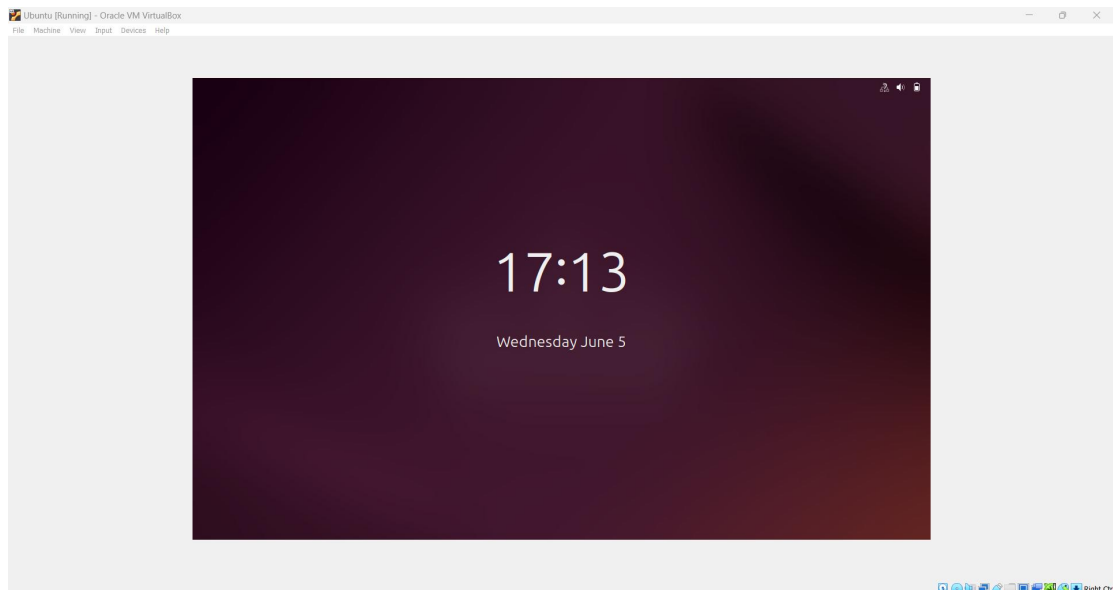


CS571 week3 Homework: Node.js Programming: Time Server
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Node.js Time server on Ubuntu Set up environment:

1. Install ubuntu VM



2. Check your ubuntu version with

`lsb_release -a`

```
ubuntu@ubuntu-VirtualBox:~$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:   Ubuntu 24.04 LTS
Release:      24.04
Codename:     noble
ubuntu@ubuntu-VirtualBox:~$
```

3. Enable the NodeSource repository by running the following curl

`curl -sL https://deb.nodesource.com/setup_14.x | sudo -E bash -`

4. Install Node.js and npm sudo

`apt-get update && sudo apt-get install -y nodejs`

5. Verify that the Node.js and npm were successfully

`node --version`

```
ubuntu@ubuntu-VirtualBox:~$ node --version
v18.19.1
```

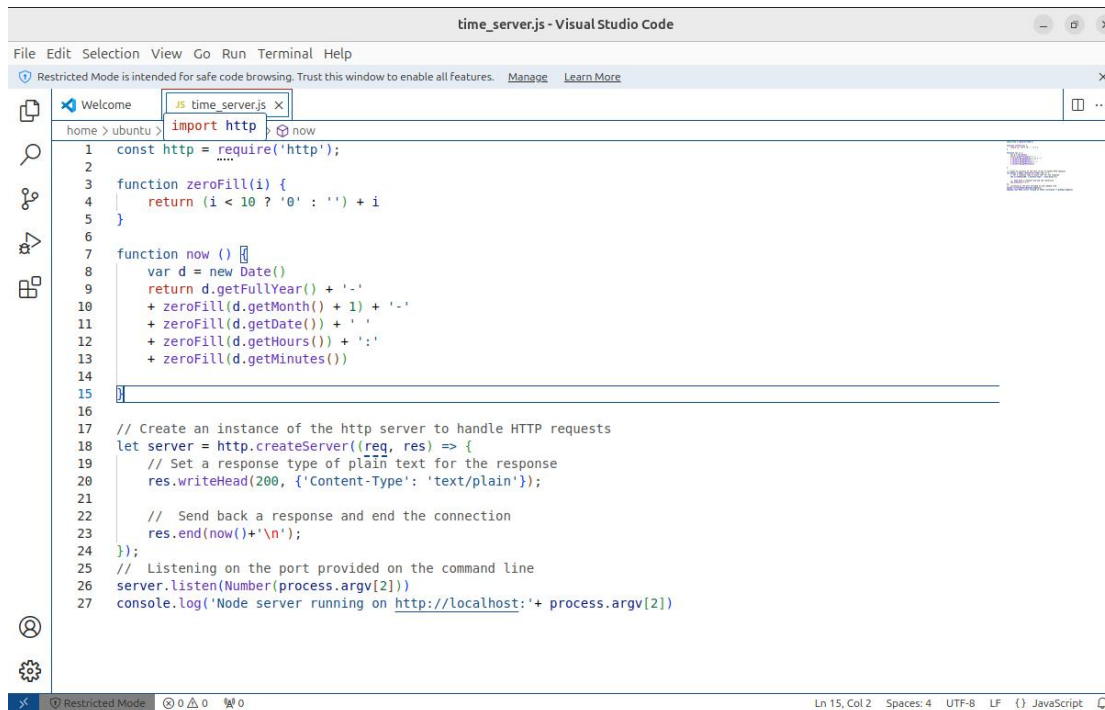
and

npm --version

```
ubuntu@ubuntu-VirtualBox:~$ npm --version
9.2.0
```

Start your node time server

1. create a file named time_server.js with the following contents

A screenshot of the Visual Studio Code editor interface. The title bar reads 'time_server.js - Visual Studio Code'. The menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. A status bar at the top indicates 'Restricted Mode is intended for safe code browsing. Trust this window to enable all features.' with links to 'Manage' and 'Learn More'. The Explorer sidebar on the left shows a file named 'time_server.js'. The main editor area displays the following JavaScript code:

```
1 import http from 'http';
2
3 function zeroFill(i) {
4   return (i < 10 ? '0' : '') + i
5 }
6
7 function now () {
8   var d = new Date()
9   return d.getFullYear() + '-' +
10  + zeroFill(d.getMonth() + 1) + '-' +
11  + zeroFill(d.getDate()) + ' ' +
12  + zeroFill(d.getHours()) + ':' +
13  + zeroFill(d.getMinutes())
14 }
15
16 // Create an instance of the http server to handle HTTP requests
17 let server = http.createServer((req, res) => {
18   // Set a response type of plain text for the response
19   res.writeHead(200, {'Content-Type': 'text/plain'});
20
21   // Send back a response and end the connection
22   res.end(now()+'\n');
23 });
24
25 // Listening on the port provided on the command line
26 server.listen(Number(process.argv[2]))
27 console.log('Node server running on http://localhost:'+ process.argv[2])
```

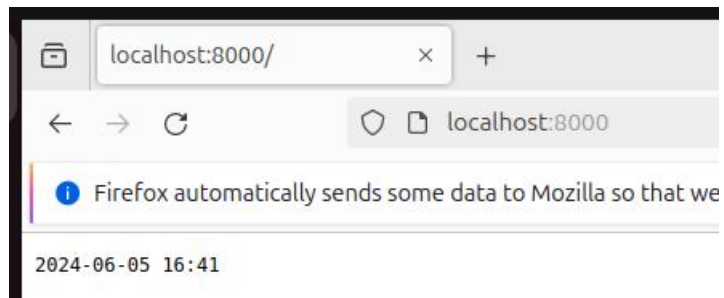
The status bar at the bottom shows 'Ln 15, Col 2', 'Spaces: 4', 'UTF-8', 'LF', and 'JavaScript'.

2. Open your ubuntu terminal and enter

```
node time_server.js 8000
```

```
ubuntu@ubuntu-VirtualBox:~$ node time_server.js 8000
Node server running on http://localhost:8000
```

3. open your browser and go to <http://localhost:8000>, you should see a page with the current time like this



Github link:

<https://github.com/hcleon4849/Javascript/blob/main/Project/Node.js%20Time%20Server%20on%20Ubuntu.pdf>