Project: HTTP JSON API Node.js Server

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Subjects

- Setting up environment
- Installing Node.js
- Node server code
- Result
- References

Setting up environment

- Install Ubuntu VM
- Check ubuntu version
-

```
long@long-VirtualBox:~$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 21.04
Release:        21.04
Codename:       hirsute
long@long-VirtualBox:~$
```

Installing Node.js

- Enable source repository
  - curl -sL https://deb.nodesource.com/setup_14.x | sudo -E bash -
- Installing Node.js
  - sudo apt-get update && sudo apt-get install -y nodejs
- Verifying installation
  -

```
long@long-VirtualBox:~$ node -v
v14.18.0
long@long-VirtualBox:~$ npm -v
6.14.15
```
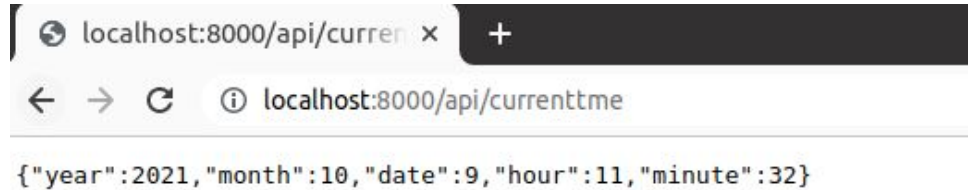
Node server code

```
 1 var http = require('http')
 2 var url = require('url')
 3
 4 function parsetime (time) {
 5   return {
 6     year: time.getFullYear(),
 7     month: time.getMonth() + 1,
 8     date: time.getDate(),
 9     hour: time.getHours(),
10     minute: time.getMinutes(),
11   }
12 }
13
14 var server = http.createServer(function (req, res) {
15
16   var time = new Date(parsedUrl.query.iso)
17   var result
18
19   if (/^\/api\/currenttme/)
20           result = parsetime(new Date(Date.now()))
21
22   if (result) {
23     res.writeHead(200, { 'Content-Type': 'application/json' })
24     res.end(JSON.stringify(result))
25   } else {
26     res.writeHead(404)
27     res.end()
28   }
29 })
30 server.listen(Number(process.argv[2]))
```

Result

- Starting node server and web browser result

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

localhost:8000/api/current

← → C ⓘ localhost:8000/api/currenttme

{"year":2021,"month":10,"date":9,"hour":11,"minute":32}

References

- https://npu85.npu.edu/~henry/npu/classes/javascript/node_js/course/nodeschool/learnyounode/exercise_learnyounode.html