HTTP JSON API SERVER

- Aditi Vaidya

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Introduction

1. Time Server and HTTP json api server is created .
2. Code is verified using `learnyounode verify file_name.js`
3. Running code is implemented.
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Installations

Install following on to Ubuntu Terminal using commands :-

1. Node.js

   ```
   curl -sL https://deb.nodesource.com/setup_14.x | sudo -E bash -
   sudo apt-get update && sudo apt-get install -y nodejs
   ```
   Check version : `node --version`

2. JSON

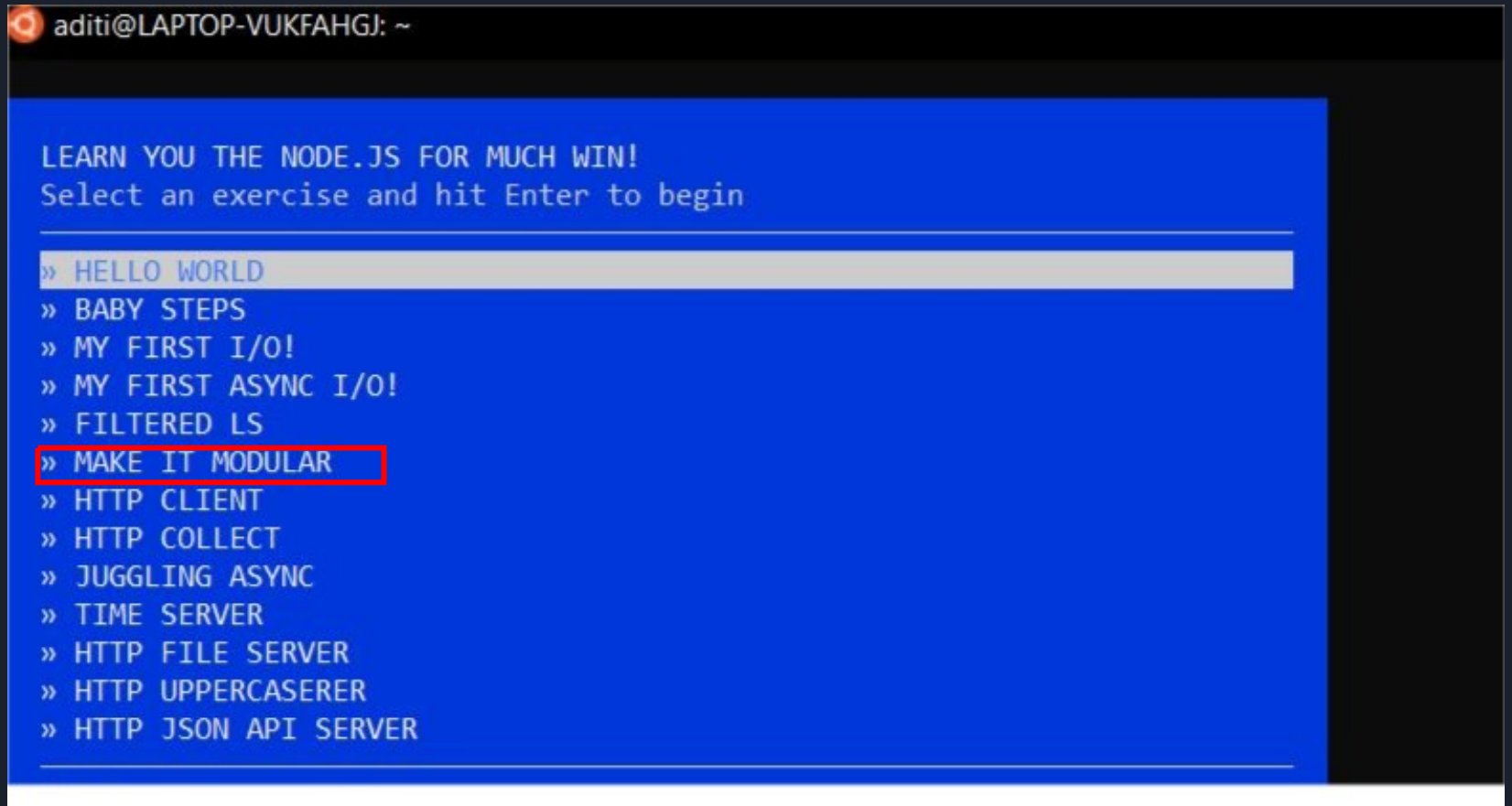
   Using `ls` check for node_modules
   `cat package.json`

   Check for dependencies.

3. NPM

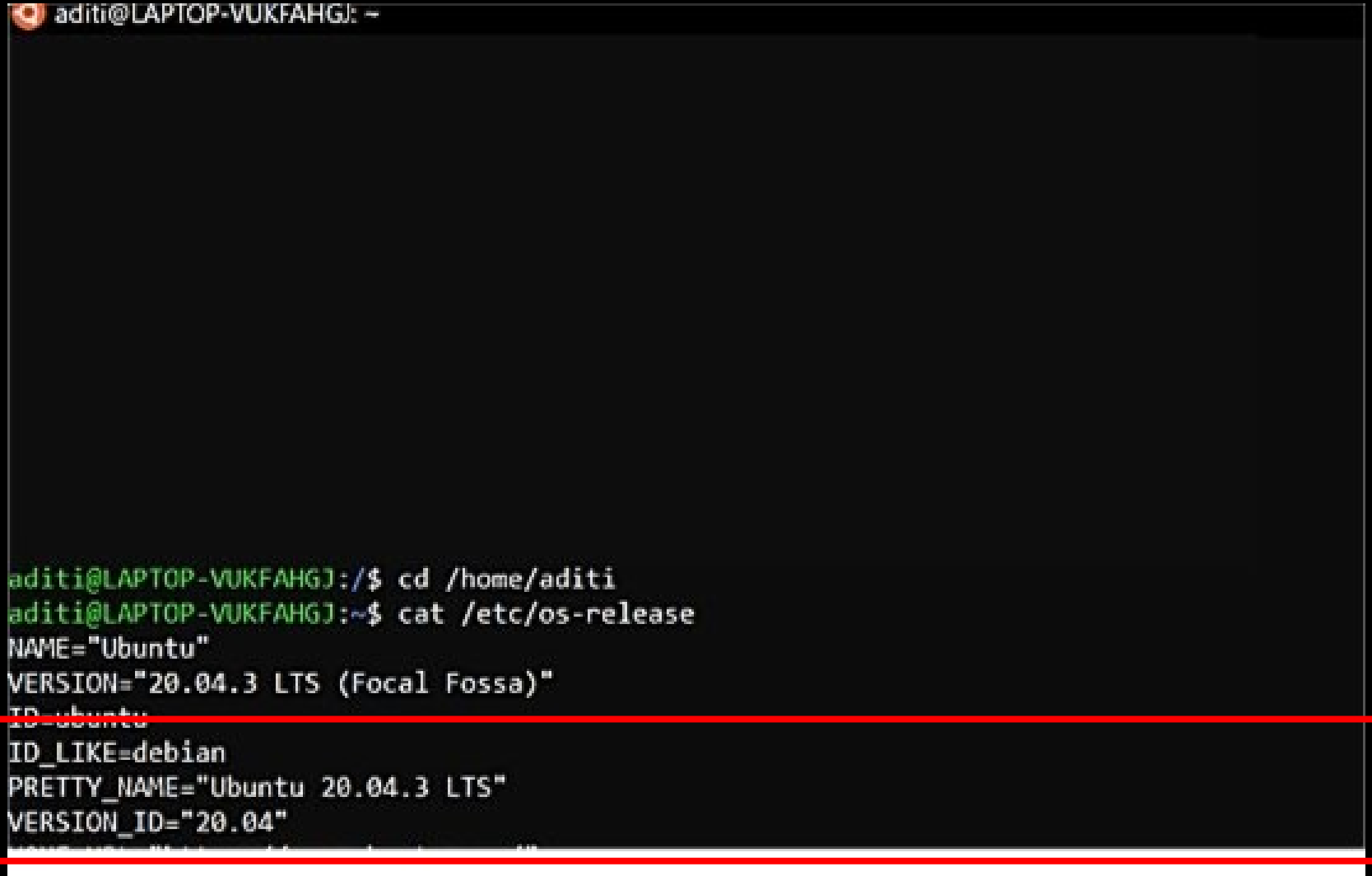
   Check version : `npm --version`

Time Server

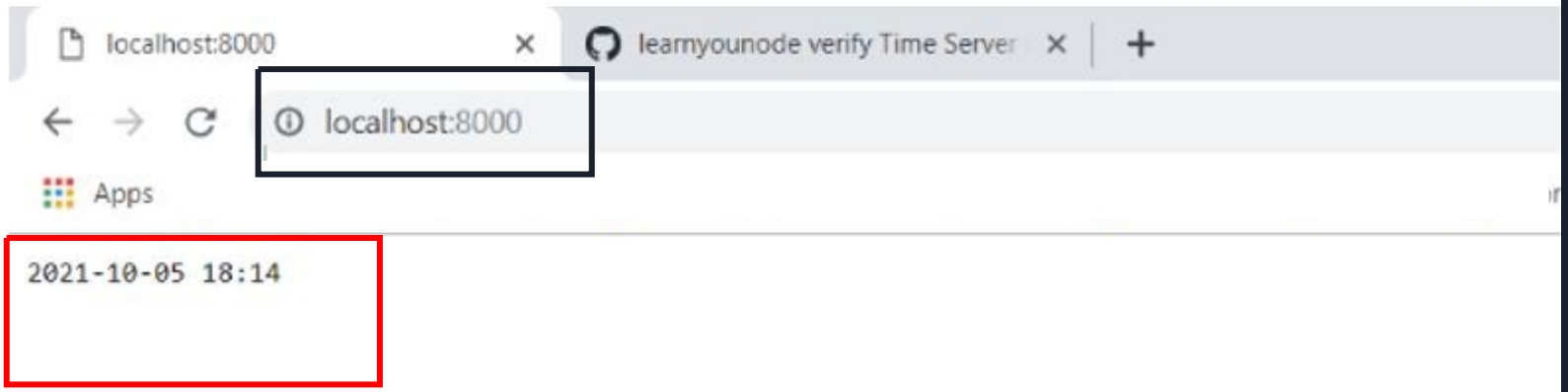

aditi@LAPTOP-VUKFAHGJ: ~
LEARN YOU THE NODE.JS FOR MUCH WIN!
Select an exercise and hit Enter to begin
» HELLO WORLD
» BABY STEPS
» MY FIRST I/O!
» MY FIRST ASYNC I/O!
» FILTERED LS
» MAKE IT MODULAR
» HTTP CLIENT
» HTTP COLLECT
» JUGGLING ASYNC
» TIME SERVER
» HTTP FILE SERVER
» HTTP UPPERCASERER
» HTTP JSON API SERVER

Time server running

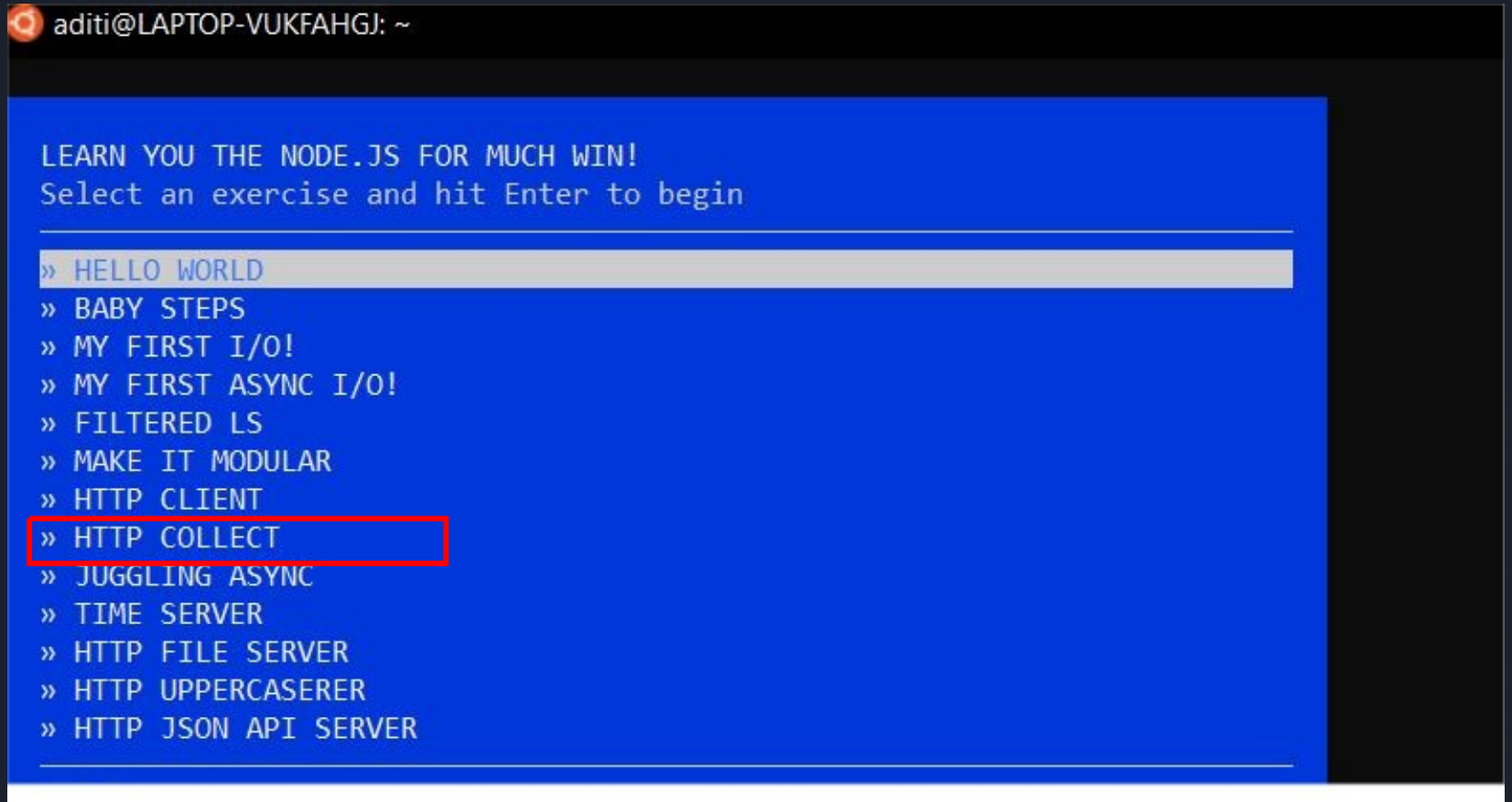
```
'use strict'
const net = require('net')

function zeroFill (i) {
  return (i < 10 ? '0' : '') + i
}

function now () {
  const d = new Date()
  return d.getFullYear() + '-' +
    zeroFill(d.getMonth() + 1) + '-' +
    zeroFill(d.getDate()) + ' ' +
    zeroFill(d.getHours()) + ':' +
    zeroFill(d.getMinutes())
}

const server = net.createServer(function (socket) {
  socket.end(now() + '\n')
})
```


aditi@LAPTOP-VUKFAHGJ: ~
aditi@LAPTOP-VUKFAHGJ:/$ cd /home/aditi
aditi@LAPTOP-VUKFAHGJ:~$ cat /etc/os-release
NAME="Ubuntu"
VERSION="20.04.3 LTS (Focal Fossa)"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 20.04.3 LTS"
VERSION_ID="20.04"

Output of Time Server



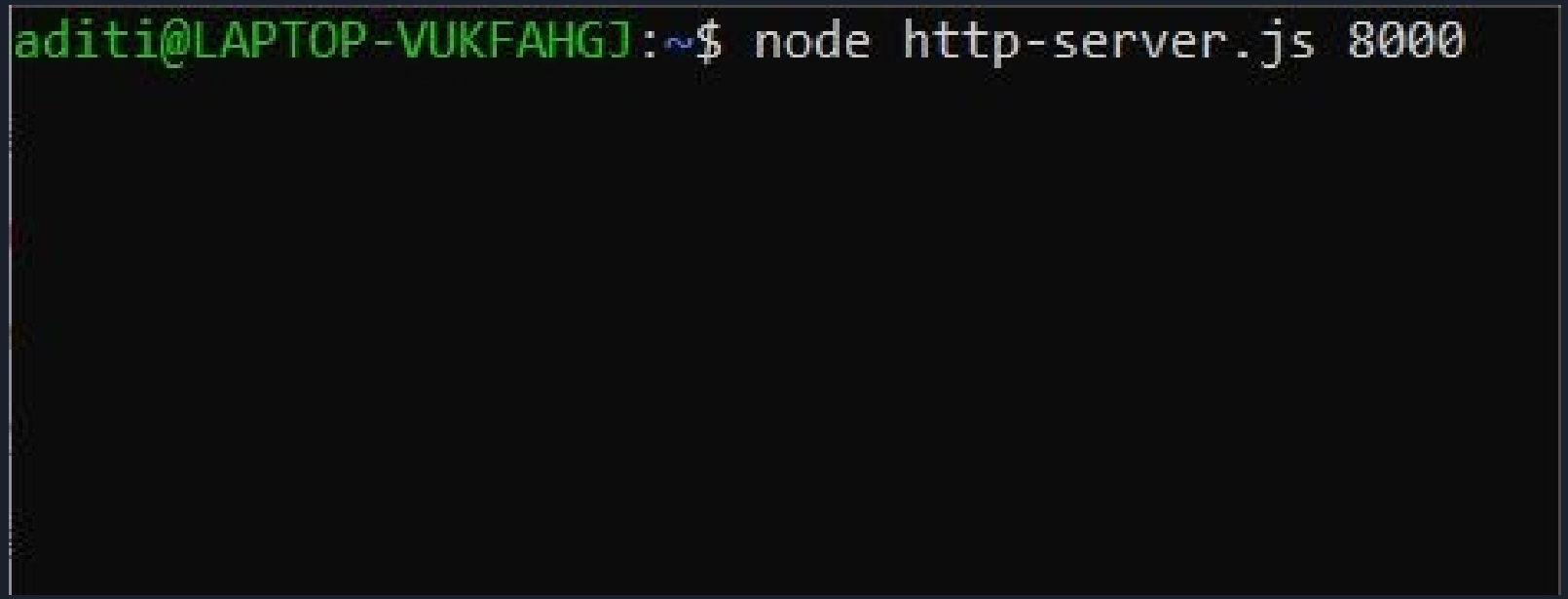
HTTP JSON API SERVER



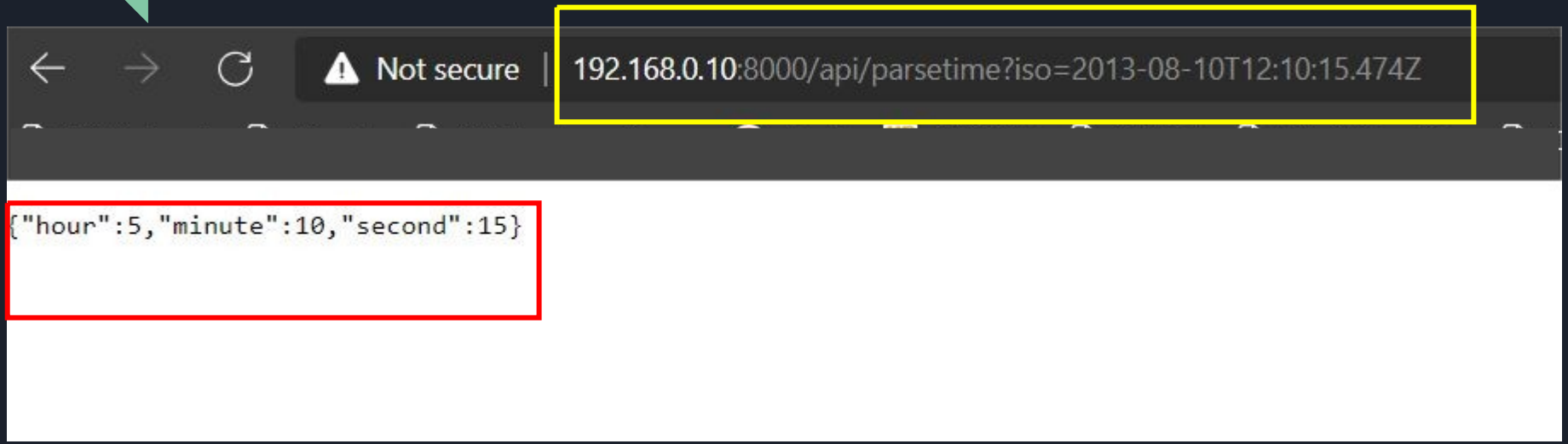
Running code http json server

```
var http = require('http')
var url = require('url')

// - Expect the request to contain a query
//   string with a key 'iso' and an ISO-format time as
//   the value. For example
//     /api/parsetime?iso=2013-08-10T12:10:15.474Z
// - The JSON response should contain only 'hour', 'minute'
//   and 'second' properties. For example:
//
//     {
//       "hour": 14,
//       "minute": 23,
//       "second": 15
//     }
function parsetime (time) {
  return {
    hour: time.getHours(),
    minute: time.getMinutes(),
    second: time.getSeconds()
  }
}
// Add second endpoint for the path '/api/unixtime' which
// accepts the same query string but returns UNIX epoch
// time under the property 'unixtime'. For example:
//
//     { "unixtime": 1376136615474 }
function unixtime (time) {
  return { unixtime : time.getTime() }
}

var server = http.createServer(function (req, res) {
  // req.url = /api/parsetime?iso=2013-08-10T12:10:15.474Z
  //        or
```

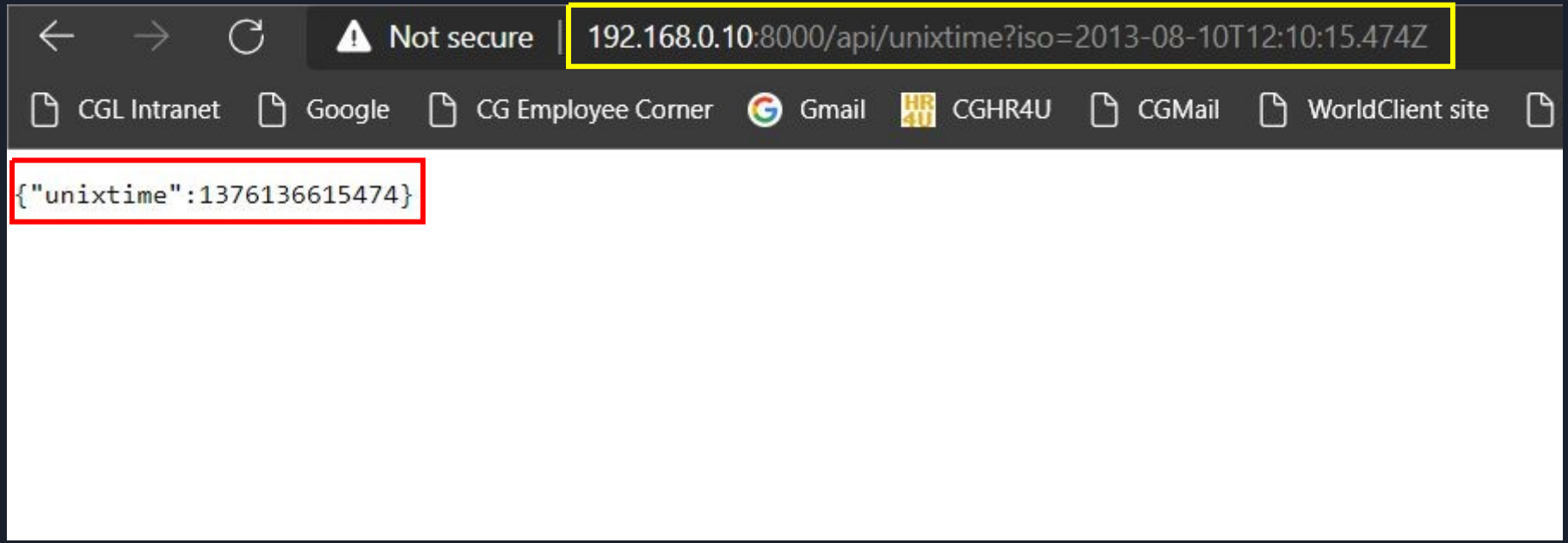
HTTP server running



ParseTime Output



UnixTime output



Thank You !