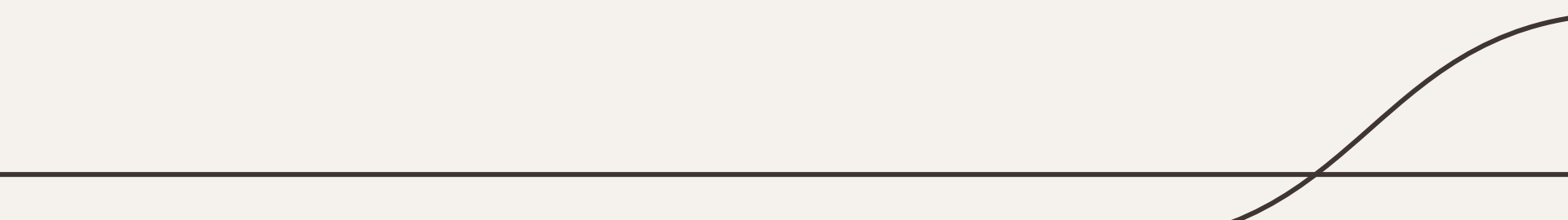# Time Server

CS571_19575_Liting_Niou

JavaScript Code

1. Apply modules:

- ```
  var http = require('http');
  ```

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

JavaScript Code

2. Make function zeroFill -

     for put 0 when date, month, hour, minutes is less than 10:

- ```javascript
  function zeroFill(i) {

      return (i < 10 ? '0' : '') + i

  }
  ```

JavaScript Code

3. Make function currenttime -

    to return specific format of time for displaying:

- ```
  function currenttime (nowTime) {
      return {
          year: nowTime.getFullYear(),
          month: zeroFill(nowTime.getMonth() + 1),
          date: zeroFill(nowTime.getDate()),
          hour: zeroFill(nowTime.getHours()),
          minute: zeroFill(nowTime.getMinutes())
      }
  }
  ```

JavaScript Code

4. Setup Server:

-
```
let server = http.createServer((req, res) => {
    var parsedUrl = url.parse(req.url, true);
    var nowTime = new Date();
    var result;
    if (/^\/api\/currenttime/.test(req.url)){
        result = currenttime(nowTime);}
    if (result) {
        res.writeHead(200, { 'Content-Type': 'application/json' })
        res.end(JSON.stringify(result))
    } else {
        res.writeHead(404)
        res.end()}});
server.listen(Number(process.argv[2]))
console.log('Node server running on http://localhost:'+ process.argv[2]);
```
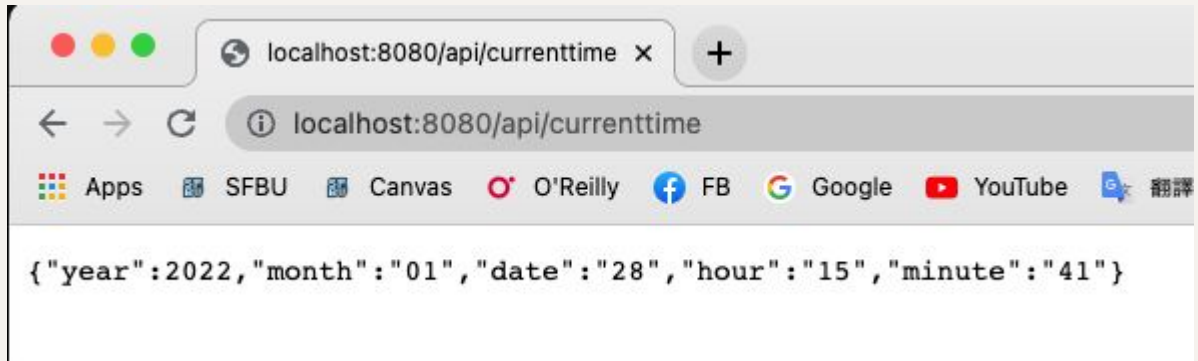
Run Server

- Open Terminal (Mac OS)

- Go to directory

- Type : node file_name.js port_number

- Ex : node time_server.js 8080

- Get server running information

```
Node.js v17.2.0
[(base) avery@Averys-Air CS571 % node time_sever.js 8080
Node server running on http://localhost:8080
```

View in Browser

- Open an browser

- Type http://localhost:port_number/api/currenttime

- Ex: http://localhost:8080/api/currenttime

- See the result

localhost:8080/api/currenttime

localhost:8080/api/currenttime

Apps   SFBU   Canvas   O'Reilly   FB   Google   YouTube   翻譯

`{"year":2022,"month":"01","date":"28","hour":"15","minute":"41"}`

Thanks

Do you have any questions?

averynionio@gmail.com