NODE.JS CC NOTES

Path Module

```
(base) anuragjanghala@ajpc:~/Desktop/nodejs_CC$ cd reference
(base) anuragjanghala@ajpc:~/Desktop/nodejs_CC/reference$ node path_demo
path_demo.js
/home/anuragjanghala/Desktop/nodejs_CC/reference
.js
{
    root: '/',
    dir: '/home/anuragjanghala/Desktop/nodejs_CC/reference',
    base: 'path_demo.js',
    ext: '.js',
    name: 'path_demo'
}
path_demo.js
/home/anuragjanghala/Desktop/nodejs_CC/reference/test/hello.html
(base) anuragjanghala@ajpc:~/Desktop/nodejs_CC/reference$
```

```
Js logger.js
             JS os_demo.js X JS url_demo.js
      const os = require('os');
      console.log(os.platform());
      console.log(os.arch())
      console.log(os.cpus());
      console.log(os.freemem());
      console.log(os.totalmem());
      console.log(os.homedir());
      console.log(os.uptime());
```

```
(base) anuragjanghala@ajpc:~/Desktop/nodejs_CC/reference$ node os demo
linux
x64
    model: 'Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz',
    speed: 3984,
    times: { user: 204810, nice: 2680, sys: 82750, idle: 5021030, irq: 0 }
    model: 'Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz',
    speed: 3980,
    times: { user: 217850, nice: 4730, sys: 81800, idle: 4951540, irq: 0 }
    model: 'Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz',
    speed: 3972,
    times: { user: 219940, nice: 2300, sys: 80610, idle: 4986700, irq: 0 }
    model: 'Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz',
    speed: 3966,
    times: { user: 195560, nice: 950, sys: 89970, idle: 4994820, irq: 0 }
    model: 'Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz',
    speed: 3985,
    times: { user: 210450, nice: 1740, sys: 81800, idle: 5009580, irq: 0 }
    model: 'Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz',
    speed: 3997,
    times: { user: 206800, nice: 3330, sys: 83430, idle: 5014340, irq: 0 }
    model: 'Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz',
    speed: 3997,
    times: { user: 210610, nice: 2780, sys: 90490, idle: 5001070, irq: 0 }
    model: 'Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz',
    speed: 3967,
    times: { user: 210520, nice: 2700, sys: 79800, idle: 5024160, irq: 0 }
    model: 'Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz',
   speed: 3946,
    times: { user: 210620, nice: 2660, sys: 80530, idle: 5014070, irq: 0 }
    model: 'Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz',
   speed: 3998,
    times: { user: 215970, nice: 1620, sys: 80220, idle: 5004810, irq: 0 }
    model: 'Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz',
    speed: 3993,
1317564416
8185262080
/home/anuragjanghala
```

```
JS fs_demo.js X JS os_demo.js
reference > JS fs_demo.js >
      const fs = require('fs');
      const path = require('path');
      fs.mkdir(path.join(__dirname, '/test'), {}, err => {
          if(err) throw err;
          console.log('Folder created...');
      fs.writeFile(path.join(__dirname, '/test', 'hello.txt'), 'Hello World!', err => {
          if(err) throw err;
          console.log('Folder written to...');
          fs.appendFile(path.join(__dirname, '/test', 'hello.txt'), 'I love node.js', err => {
              if(err) throw err;
              console.log('Folder written to...');
      fs.writeFile(path.join(__dirname, '/test', 'hello.txt'), 'I love node.js', err => {
          if(err) throw err;
          console.log('Folder written to...');
      fs.readFile(path.join( dirname, '/test', 'hello.txt'), 'utf-8', (err,data) => {
          if(err) throw err;
          console.log(data);
          path.join(__dirname, '/test', 'hello.txt'),
          path.join( dirname, '/test', 'helloworld.txt'),
          if(err) throw err;
          console.log('File renamed...');
```

Event Emitter using log

-> uuid was used to get the id of the message

Classes using export modules:

HTTP Module Server

- Simplest web server -> hello world

```
(base) anuragjanghala@ajpc:~/Desktop/nodejs_CC/reference$ node http_demo
Server running...
^C
(base) anuragjanghala@ajpc:~/Desktop/nodejs_CC/reference$ cd ...
```



Hello WOrld!

Nodemon:

is used to watch over the running server so that we need not to update server on our own.

```
Js index.js
               {} package.json X
{} package.json > ...
         "name": "nodejs cc",
         "version": "1.0.0",
         "description": "Node crash course",
         "main": "index.js",
         ▶ Debug
         "scripts": {
           "start": "node index",
          "dev": "nodemon index"
         "author": "Anurag Janghala",
         "license": "ISC",
         "dependencies": {
           "uuid": "^8.3.1"
         "devDependencies": {
           "nodemon": "^2.0.6"
```

```
(base) anuragjanghala@ajpc:~/Desktop/nodejs_CC$ npm run dev
> nodejs_cc@1.0.0 dev /home/anuragjanghala/Desktop/nodejs_CC
> nodemon index

[nodemon] 2.0.6
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node index index.js`
Server running on port 5001
[nodemon] restarting due to changes...
[nodemon] starting `node index index.js`
Server running on port 5001
```

Full Server code using nodeJS and Some html, css files used to deploy on heroku using git.

```
// // for calling the apis
// if (req.url === '/api/users'){
// const users = [
// { name: 'Bob Smith', age: 40 },
// { name: 'John Doe', age: 30}
// ];
// res.writeHead(200, {'Content-Type': "application/json"});
// res.end(JSON.stringify(users));
// }

let filePath = path.join(
    __dirname,
    'public',
    req.url === '/' ? 'index.html' : req.url
);

// extension of the file
let extname = path.extname(filePath);

// Initial content type
let contentType = 'text/html';
```

```
//check extension and set content type
switch(extname){
    case '.js':
        contentType = 'text/javascript';
        break;
    case '.css':
        contentType = 'text/css';
        break;
    case '.json':
        contentType = 'application/json';
        break;
    case '.png':
        contentType = 'image/png';
        break;
    case '.jpg':
        contentType = 'image/jpg';
        break;
}
```

Html files:

CSS file: