

```

1  // -----
2  // Demo NodeJS Server - OPERATING SYSTEM INFO
3  // -----
4  // File: demo-server1.js
5  //
6  // V1 Oct'2021 dbf - initial version, KETE-HS21
7  // V2 Oct'2022 dbf - minor corrections in HTML response data
8  //
9  // Source: Node.js Web Development - Fifth Edition (packt.com)
10 // -----
11 import * as http from 'http';
12 import * as util from 'util';
13 import * as os from 'os';
14
15 const listenOn = 'http://localhost:8080';
16
17 const server = http.createServer();
18 server.on('request', (request, response) => {
19     var requrl = new URL(request.url, listenOn);
20     if (requrl.pathname === '/') homePage(request, response);
21     else if (requrl.pathname === "/osinfo") osInfo(request, response);
22     else {
23         response.writeHead(404, {'Content-Type': 'text/html'});
24         response.end("bad URL "+ request.url);
25     }
26 });
27
28 server.listen(new URL(listenOn).port);
29
30 console.log(`listening to ${listenOn}`);
31
32 function homePage(request, response) {
33     response.end(
34         `<html><head><title>DEMO NodeJS Server1</title></head>
35         <body><h1>DEMO NodeJS Server1 - Operating System Info</h1>
36         <h2>V1 Oct'2021 - KETE HS21</h2>
37         <p><a href="/osinfo">Get OS Info</a></p>
38         </body></html>`);
39 }
40
41 function osInfo(request, response) {
42     response.writeHead(200, {'Content-Type': 'text/html'});
43     response.end(
44         `<html><head><title>DEMO NodeJS Server1 - Operating System Info</title></head>
45         <body><h1>DEMO NodeJS Server1 - Operating System Info</h1>
46         <table>
47         <tr><th>TMP Dir</th><td>${os.tmpdir()}</td></tr>
48         <tr><th>Host Name</th><td>${os.hostname()}</td></tr>
49         <tr><th>OS Type</th><td>${os.type()} ${os.platform()} ${os.arch()}
50         ${os.release()}</td></tr>
51         <tr><th>Uptime</th><td>${os.uptime()} ${util.inspect(os.loadavg())}</td></tr>
52         <tr><th>Memory</th><td>total: ${os.totalmem()} free: ${os.freemem()}</td></tr>
53         <tr><th>CPU's</th><td><pre>${util.inspect(os.cpus())}</pre></td></tr>
54
55         <tr><th>Network</th><td><pre>${util.inspect(os.networkInterfaces())}</pre></td>
56         </tr>
57         </table>
58         </body></html>`);
59 }

```