

Assignemnt 3A

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Index.html

```
const http = require('http');
const url = require('url');
const fs = require('fs');
const path = require('path');

const PORT = 1800;

const mimeType = {
  '.ico': 'image/x-icon',
  '.html': 'text/html',
  '.js': 'text/javascript',
  '.json': 'application/json',
  '.css': 'text/css',
  '.png': 'image/png',
  '.jpg': 'image/jpeg',
  '.wav': 'audio/wav',
  '.mp3': 'audio/mpeg',
  '.svg': 'image/svg+xml',
  '.pdf': 'application/pdf',
  '.doc': 'application/msword',
  '.eot': 'application/vnd.ms-fontobject',
  '.ttf': 'application/font-sfnt'
};

http.createServer((req, res) => {
  const parsedUrl = url.parse(req.url);
  if (parsedUrl.pathname === '/') {
    var fileList = fs.readdirSync("./public/");
    var filesLink = "<ul>";
    fileList.forEach(element => {
      if (fs.statSync("./public/" + element).isFile()) {
        filesLink += `<li><a href='./${element}'>${element}</a></li>`;
      }
    });
    filesLink += "</ul>";
    var html = `
<!DOCTYPE html>
<html>

<head>
  <meta charset="UTF-8">
  <title>Directory Listing</title>
  <style>
    body {
      font-family: Arial, Helvetica, sans-serif;
      background-color: #f4f4ff;
      width:50%;
      margin:0 auto;
    }
    h1 {
      text-align: center;
      color: #555;
      margin-top:5rem;
    }
    ul {
      list-style: none;
      padding: 0;
      margin: 0;
    }
    li {
      margin-bottom: 10px;
      background-color: #fff;
      padding: 5px;
      width: 55%;
      margin: 1rem auto;
    }
    a {
      text-decoration: none;
      font-weight: bold;
      color:#5555ee;
      font-size:1.2rem;
    }
    a:hover {
      text-decoration: underline;
    }
  </style>
</head>

<body>
  <h1>Welcome To My Web Server <br></h1>
  <h2 style="text-align: center"> We have following Public files to share</h2>
  <hr>
  ${filesLink}
</body>
</html>
`;
  res.writeHead(200, { 'Content-Type': 'text/html' });
  res.end(html);
})
```

```
margin:0 auto;
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  margin-top:5rem;
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<body>
  <h1>Welcome To My Web Server <br></h1>
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  <hr>
  ${filesLink}
</body>
</html>
`;
```

```

        res.setHeader('Content-type',
'text/html');
        res.end(html);
    } else {
        const sanitizePath =
path.normalize(parsedUrl.pathname).re
place(/^(\\.\\.\\.\\|\\|\\|)+/, '');
        let pathname =
path.join(__dirname + "/public",
sanitizePath);
        if (!fs.existsSync(pathname))
{
            res.statusCode = 404;
            res.end(`File ${pathname}
not found!`);
        } else {
            fs.readFile(pathname,
function (err, data) {

```

```

        if (err) {
            res.statusCode =
500;
            res.end(`Error in
getting the file.`);
        } else {
            const ext =
path.parse(pathname).ext;

            res.setHeader('Content-type',
mimeTypes[ext] || 'text/plain');
            res.end(data);
        }
    }
}

}).listen(PORT);

```

output:

Welcome To My Web Server

We have following Public files to share

[development-process.png](#)

[index.html](#)

[web-application-development-process.gif](#)

