

WAD Assignment - 3a

Static Node.js Server

Code-

```
const http = require('http');

const fs = require('fs');

const path = require('path');

const url = require('url');

// Directory to serve files from

const directoryPath = path.join(__dirname, 'public');

const server = http.createServer((req, res) => {

  const parsedUrl = url.parse(req.url, true);

  let pathname = decodeURIComponent(parsedUrl.pathname);

  if (pathname === '/') {

    // List all files in the directory

    fs.readdir(directoryPath, (err, files) => {

      if (err) {

        res.writeHead(500, { 'Content-Type': 'text/plain' });

        res.end('Error reading directory');

        return;

      }

      res.writeHead(200, { 'Content-Type': 'text/html' });

      res.write('<h2>Directory Listing</h2><ul>');

      files.forEach(file => {

        const fileUrl = `/file/${file}`;

        res.write(`<li><a href="${fileUrl}">${file}</a></li>`);

      });

    });

  }

});
```

```

    });

    res.write('</ul>');

    res.end();

  });

} else if (pathname.startsWith('/file/')) {

  // Display the contents of a selected file

  const fileName = pathname.replace('/file/', '');

  const filePath = path.join(directoryPath, fileName);

  fs.readFile(filePath, 'utf8', (err, data) => {

    if (err) {

      res.writeHead(404, { 'Content-Type': 'text/plain' });

      res.end('File not found or cannot be read. ');

      return;

    }

    res.writeHead(200, { 'Content-Type': 'text/plain' });

    res.end(data);

  });

} else {

  res.writeHead(404, { 'Content-Type': 'text/plain' });

  res.end('404 - Not Found');

}

});

const PORT = 3000;

server.listen(PORT, () => {

  console.log(` Server running at http://localhost:${PORT} `);

});

```

```
20
21
22     res.writeHead(200, { 'Content-Type': 'text/html' });
23     res.write('<h2>Directory Listing</h2><ul>');
24     files.forEach(file => {
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\SHUBHAM\Desktop\wad\3anew> node server.js
Server running at http://localhost:3000

Ln 56, Col 1 Spaces: 4 UTF-8

← ↻ ⓘ localhost:3000/file/data.json

```
[
  {
    "id": 1,
    "name": "Alice Johnson",
    "email": "alice@example.com"
  },
  {
    "id": 2,
    "name": "Bob Smith",
    "email": "bob@example.com"
  },
  {
    "id": 3,
    "name": "Charlie Brown",
    "email": "charlie@example.com"
  }
]
```

