

ASSIGNMENT NO : 3B

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

const fs = require('fs');

const path = require('path');

const url = require('url');

const PORT = 3000;

// Mapping file extensions to Content-Type headers

const mimeTypes = {

  '.html': 'text/html',

  '.js': 'text/javascript',

  '.css': 'text/css',

  '.json': 'application/json',

  '.png': 'image/png',

  '.jpg': 'image/jpg',

  '.gif': 'image/gif',

};

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

  // 1. Parse the URL to get the file path

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

  let filePath = '.' + parsedUrl.pathname;

  // 2. Default to index.html if the path is just '/'

  if (filePath === './') {

    filePath = './public/index.html';

  } else {

    filePath = './public' +

    parsedUrl.pathname;

  }

}
```

```
    } const extname =

    String(path.extname(filePath)).toLowerCase();

    const contentType =

    mimeTypes[extname] ||

    'application/octet-stream';

    // 3. Read the file from the File System

    fs.readFile(filePath, (error, content) => {

      if (error) {

        if (error.code === 'ENOENT') {

          // File not found

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

          res.end('<h1>404 Not Found</h1>', 'utf-8');

        } else {

          // Some server error (e.g., permissions)

          res.writeHead(500);

          res.end(` Server Error: ${error.code} `);

        }

      } else {

        // 4. Success! Serve the file

        res.writeHead(200, { 'Content-Type': contentType });

        res.end(content, 'utf-8');

      }

    });

    server.listen(PORT, () => {

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

    });

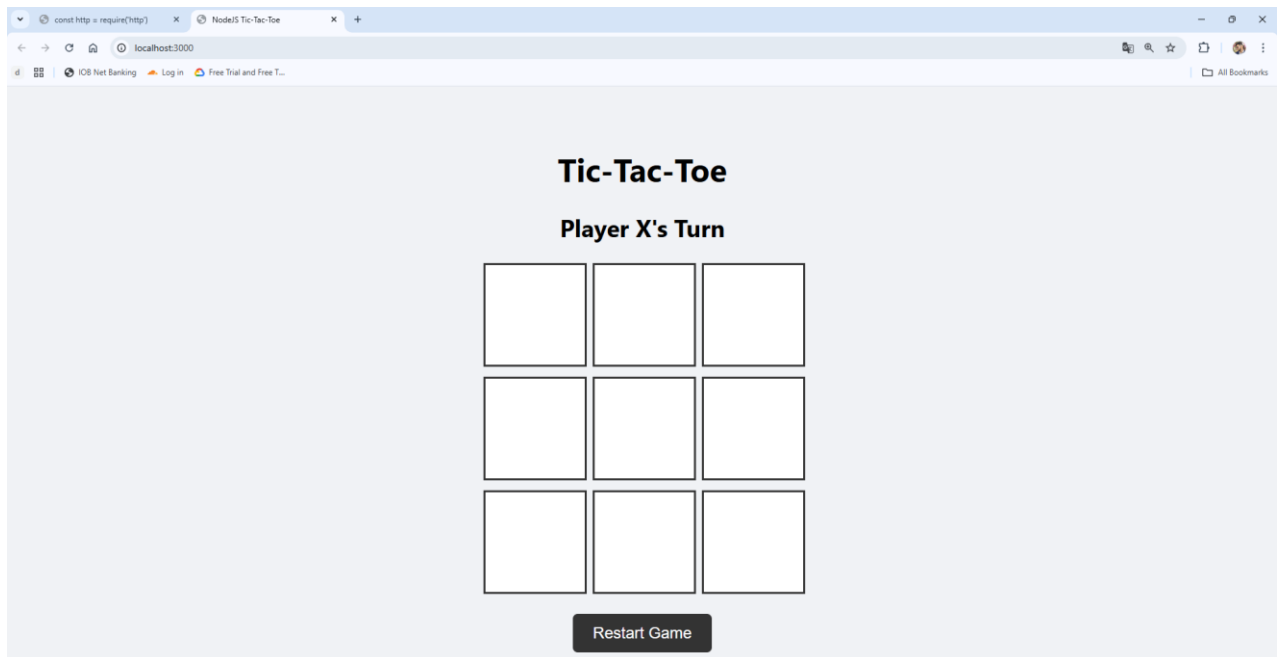
  });
```

```
54 server.listen(PORT, () => {
55   ... console.log(`Server running at http://localhost:${PORT}/`);
56 });
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\DRIVE d\ACADEMICS\3a> node server.js
Server running at http://localhost:3000/
(node:10648) [DEP0169] DeprecationWarning: `url.parse()` behavior is not standardized and prone to errors that have
WHATWG URL API instead. CVEs are not issued for `url.parse()` vulnerabilities.
(Use `node --trace-deprecation ...` to show where the warning was created)
```

Index.html



Conclusion:
