

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;
  }
  // 3. Read the file from the File System (fs)
  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}/`);
});
```

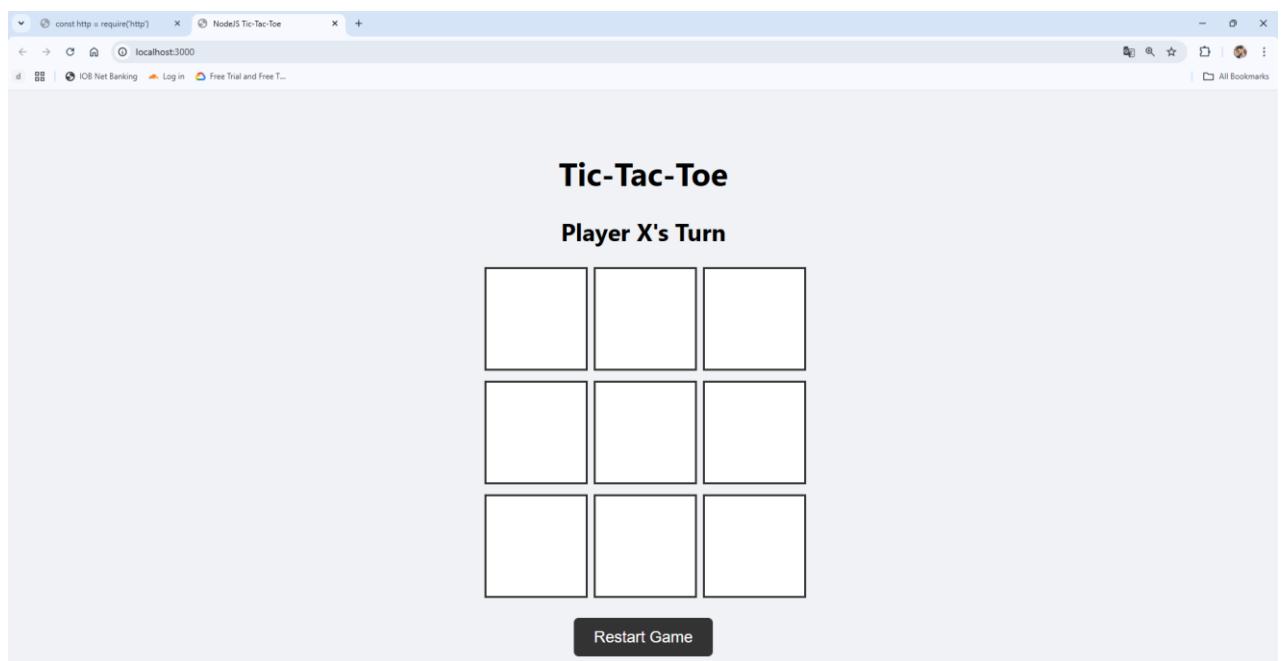
```
54 server.listen(PORT, () => {
55   console.log(`Server running at http://localhost:${PORT}/`);
56 });

```

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:
