## **Assignment 3**

a. Create a Node.JS Application which serves a static website.

```
Index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Interactive Webpage</title>
  <style>
    body {
      font-family: 'Arial', sans-serif;
       margin: 0;
       padding: 0;
      box-sizing: border-box;
       background-color: #f4f4f4;
    }
    nav {
       background-color: #333;
      color: white;
       padding: 15px;
      text-align: center;
    }
    nav a {
      color: white;
      text-decoration: none;
      margin: 0 15px;
      font-size: 18px;
    }
    nav a:hover {
      text-decoration: underline;
    .hero {
       background-image: url('https://via.placeholder.com/1500x500');
       background-size: cover;
       color: rgb(153, 221, 238);
      text-align: center;
       padding: 100px 20px;
    }
    .hero h1 {
      font-size: 3.5rem;
       margin-bottom: 20px;
    }
    .hero p {
      font-size: 1.5rem;
       margin-bottom: 40px;
    }
    .button {
       background-color: #ff6347;
       color: white;
```

```
padding: 15px 30px;
      font-size: 1.2rem;
      border: none;
      cursor: pointer;
      transition: background-color 0.3s;
    }
    .button:hover {
      background-color: #ff4500;
    footer {
      background-color: #333;
      color: white;
      padding: 20px 0;
      text-align: center;
    @media (max-width: 768px) {
      .hero h1 {
        font-size: 2.5rem;
      }
      .hero p {
        font-size: 1.2rem;
      }
  </style>
</head>
<body>
  <!-- Navigation Bar -->
  <nav>
    <a href="#">Home</a>
    <a href="#">About</a>
    <a href="#">Services</a>
    <a href="#">Contact</a>
  </nav>
  <!-- Hero Section -->
  <div class="hero">
    <h1>Welcome to Our Website!</h1>
    We offer top-quality services for your needs.
    <button class="button" onclick="changeContent()">Click Me!</button>
  </div>
  <!-- Footer -->
  <footer>
    © 2025 Your Company. All rights reserved.
  </footer>
  <!-- Embedded JavaScript -->
  <script>
    function changeContent() {
      const heroSection = document.querySelector('.hero');
      heroSection.innerHTML = `
        <h1>Thank you for clicking!</h1>
        We hope you enjoy exploring our website.
        <button class="button" onclick="goBack()">Go Back</button>
```

```
function goBack() {
    window.location.reload();
}
</script>

</body>
</html>

Index.js

const express = require('express');
const app = express();
const port = 4000;
app.use(express.static('public'));
app.listen(port, () => {
    console.log(`Server is running on port ${port}`);
});

Outputs:
```

```
PS D:\Ass3a> npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.
See `npm help init` for definitive documentation on these fields
and exactly what they do.
Use `npm install <pkg>` afterwards to install a package and save it as a dependency in the package.json file.
Press ^C at any time to quit.
package name: (ass3a)
version: (1.0.0)
description: This is practical 3 a
entry point: (index.js)
test command:
git repository:
keywords:
author:
license: (ISC)
About to write to D:\Ass3a\package.json:
  "name": "ass3a",
"version": "1.0.0",
"description": "This is practical 3 a",
"main": "index.js",
"scripts": {
```

```
"scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  "author": "",
  "license": "ISC"
Is this OK? (yes) yes
npm notice
npm notice New major version of npm available! 9.6.7 -> 11.2.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.2.0
npm notice Run npm install -g npm@11.2.0 to update!
npm notice
PS D:\Ass3a> npm install express
added 69 packages, and audited 70 packages in 1s
14 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities
PS D:\Ass3a> node index.js
Server is running on port 4000
```

