Experiment 10
Views & public directories

Experiment 10: Views & public directories
Lab Objective: Setup Views & public directories

Step 1: Create a New Express Application

```
PS C:\Users\91959\Desktop\Collage\3rd_year\Gulsan_Sir\Backend\my-node-app> npm init -y
Wrote to C:\Users\91959\Desktop\Collage\3rd_year\Gulsan_Sir\Backend\my-node-app\package.json:

{
  "name": "my-node-app",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "type": "commonjs"
}
```
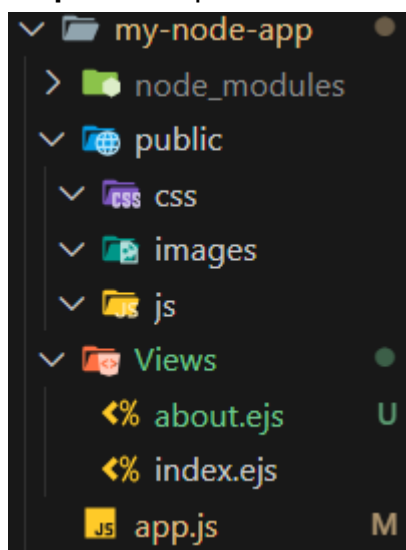
```
PS C:\Users\91959\Desktop\Collage\3rd_year\Gulsan_Sir\Backend\my-node-app> npm install express ejs

added 8 packages, and audited 76 packages in 2s

14 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

Step 2: Set up the Basic Structure

```
∨ 📁 my-node-app              ●
  > 📦 node_modules
  ∨ 🌐 public
    ∨ 🔷 css
    ∨ 🖼 images
    ∨ 📁 js
  ∨ 📁 Views                  ●
      <% about.ejs            U
      <% index.ejs
      📄 app.js               M
```

```javascript
1   const express = require('express');
2   const app = express();
3   const path = require('path');
4
5   // Set EJS as the template engine
6   app.set('view engine', 'ejs');
7
8   // Serve static files from the public directory
9   app.use(express.static(path.join(__dirname, 'public')));
10
11  // Routes
12  app.get('/', (req, res) => {
13      res.render('index', { title: 'Home Page' });
14  });
15  app.get('/about', (req, res) => {
16      res.render('about', { title: 'About Page' });
17  });
18
19  // Start the server
20  const PORT = process.env.PORT || 3000;
21  app.listen(PORT, () => {
22      console.log(`Server is running on port ${PORT}`);
23  });
```

public/css/style.css

```css
1  body {
2      font-family: Arial, sans-serif;
3      background-color: #f4f4f4;
4  }
5  h1 {
6      color: #333;
7  }
```

Step 3: Create Views Using EJS

index.ejs

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title><%= title %></title>
7       <link rel="stylesheet" href="/css/style.css">
8   </head>
9   <body>
10      <h1>Welcome to the <%= title %></h1>
11      <p>This is the home page.</p>
12      <a href="/about">Go to About Page</a>
13  </body>
14  </html>
```

about.ejs

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title><%= title %></title>
7       <link rel="stylesheet" href="/css/style.css">
8   </head>
9   <body>
10      <h1>Welcome to the <%= title %></h1>
11      <p>This is the about page.</p>
12      <a href="/">Go back to Home Page</a>
13  </body>
14  </html>
```

Step 4: Running the Application:

Welcome to the Home Page

This is the home page.

Go to About Page

Welcome to the About Page

This is the about page.

Go back to Home Page