# Experiment 7
# First Application using EJS

**Experiment 7:** First Application using EJS
**Lab Objective:** Set up a First Application using EJS

**Step 1:** Initialize a New Node.js Project

```
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"
}
```
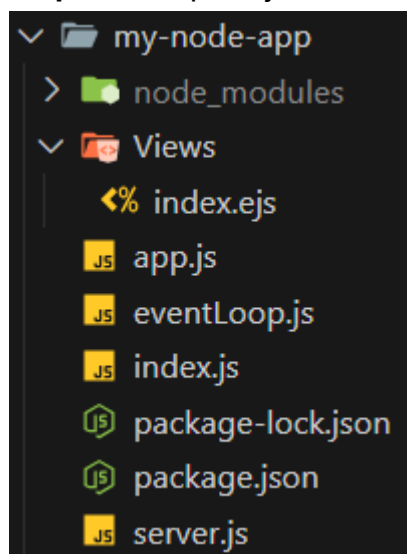
**Step 2: Install Required Dependencies**

```
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 3**:Set Up Project Structure

```
∨ 📂 my-node-app
  > 📦 node_modules
  ∨ 📁 Views
      <% index.ejs
    JS app.js
    JS eventLoop.js
    JS index.js
    ⬡ package-lock.json
    ⬡ package.json
    JS server.js
```
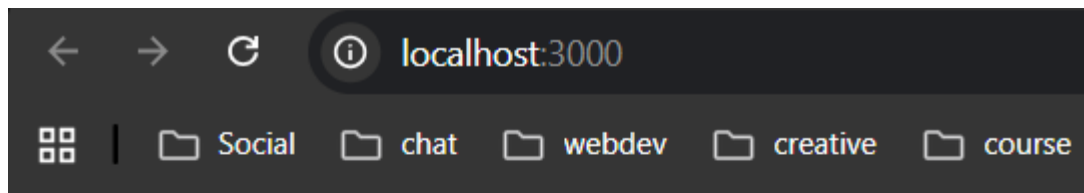
**Step 4:** Configure Express Application (app.js)

```javascript
1  const express = require('express');
2  const app = express();
3  const port = 3000;
4
5  // Set EJS as the templating engine
6  app.set('view engine', 'ejs');
7
8  // Serve static files from the 'public' directory
9  app.use(express.static('public'));
10
11 // Define a route for the home page
12 app.get('/', (req, res) => {
13     const title = "Welcome to EJS Templating";
14     const message = "This is your first EJS application!";
15     const items = ['Item 1', 'Item 2', 'Item 3'];
16
17     // Render 'index.ejs' and pass data to the template
18     res.render('index', { title: title, message: message, items: items });
19 });
20
21 // Start the server
22 app.listen(port, () => {
23     console.log(`App listening at http://localhost:${port}`);
24 });
```

**Step 5:** Create EJS Template (views/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  </head>
8  <body>
9      <h1><%= title %></h1>
10     <p><%= message %></p>
11     <ul>
12         <% items.forEach(item => { %>
13             <li><%= item %></li>
14         <% }) %>
15     </ul>
16     <% if (items.length > 0) { %>
17         <p>You have <%= items.length %> items in your list.</p>
18     <% } else { %>
19         <p>No items in your list.</p>
20     <% } %>
21 </body>
22 </html>
```

**Step 6:** Run the Application:



# Welcome to EJS Templating

This is your first EJS application!

- Item 1
- Item 2
- Item 3

You have 3 items in your list.