

8.1P: Creating a Node Project

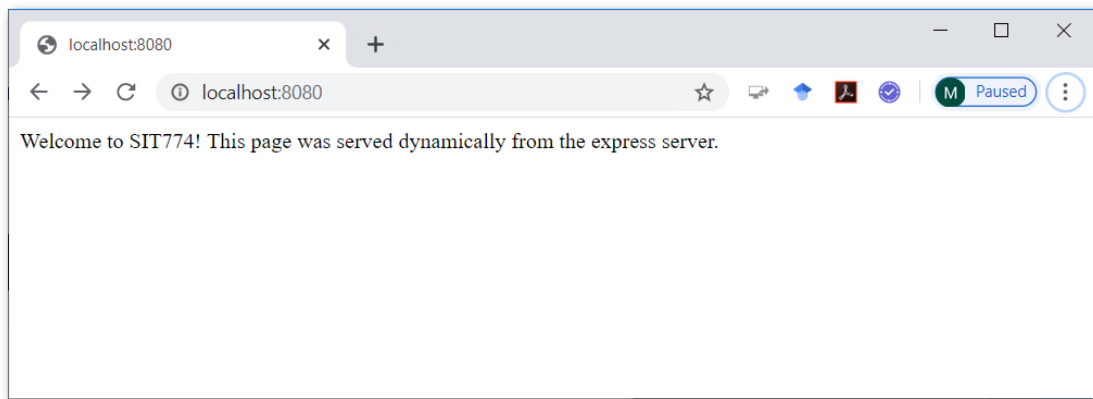
Tasks

This task assumes that you have already installed Node.js on your computer.

The goal is to demonstrate the successful running of a Node express web server that is capable of serving both static and dynamic web pages.

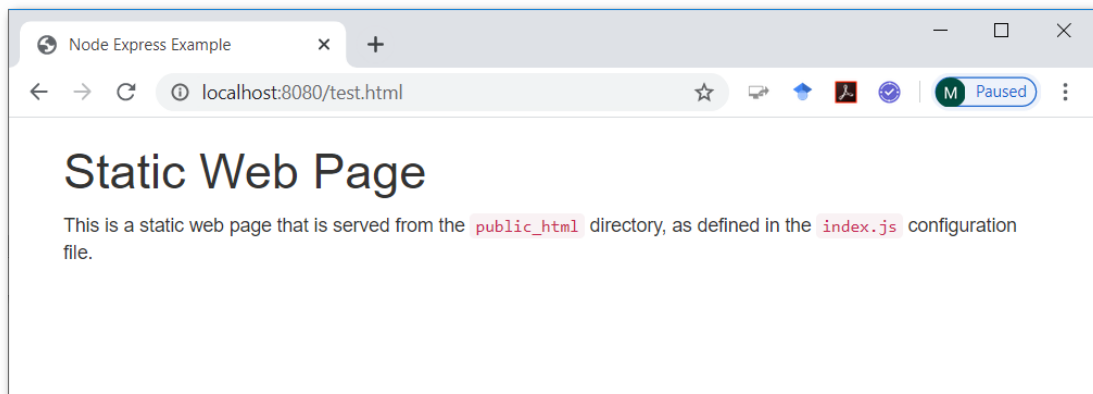
You are required to create your own local directory, and follow the instructions below to create your own Node project.

1. Run NPM in your created local directory to install the modules: *express*, *body-parser*, *sqlite3*, and *cookie-parser*.
2. Check the folder/sub-directory `node_modules` in your local directory to see if the above modules are installed.
3. Using the *express module* create a *Node.js* application (i.e., `index.js`) that will set a local web server. The server listens to the port **8080** and sets the folder/subdirectory `public_html` as the default server home directory. Any HTML files saved in this home directory can be accessed by web browsers via the local server. When the user accesses `http://localhost:8080` using a web browser (i.e., would normally access the `index.html` file), the *Node.js* application should serve the message *"Welcome to SIT774! This page was served dynamically from the express server."* is displayed.
4. Create the sub-directory/folder `public_html` in your local directory.
5. Create a HTML document (e.g., `test.html`) and save it into the `public_html`.
6. Run the command **node .** or **node index.js** in a Command Prompt (Windows) or Terminal (Mac OS) within your local directory to make the server work.
7. Open a web browser and visit `http://localhost:8080`, the message *"Welcome to SIT774! This page was served dynamically from the express server."* should be displayed in the window like:



Task8.1.1 Node.js application serving default page

8. Display the HTML document you created (e.g., test.html) by visiting <http://localhost:8080/test.html>. Your web page should be displayed in the browser window. Similar to that shown below (this example is also using *bootstrap* for formatting):



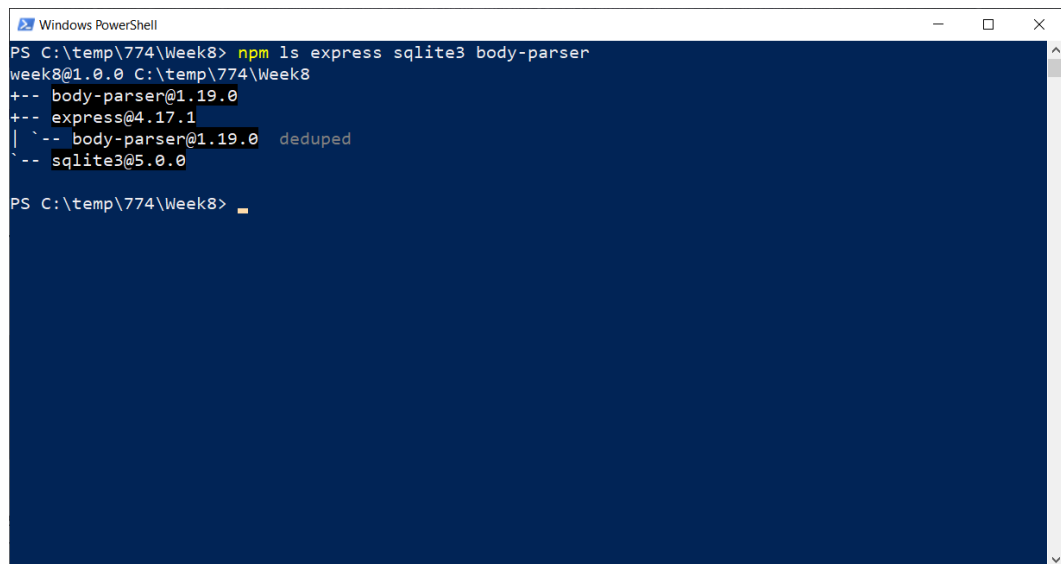
Task8.1.2 Node.js application serving a static page

9. Go back to the Command Prompt or Terminal, and shutdown the server.

What will you submit?

You should submit:

- Screenshot(s) of the `node_modules` folder, showing the four modules are installed.
 - From the command line use `npm ls express sqlite3 body-parser` to obtain a listing of the installed packages, as shown in the screenshot below:



```
PS C:\temp\774\Week8> npm ls express sqlite3 body-parser
week8@1.0.0 C:\temp\774\Week8
+-- body-parser@1.19.0
+-- express@4.17.1
|   |-- body-parser@1.19.0 deduped
|   |-- sqlite3@5.0.0
+-- sqlite3@5.0.0

PS C:\temp\774\Week8>
```

Task8.1.3 NPM Package Listing

- Source code of the file `index.js`.
- Screenshot of the browser window showing the result of visiting <http://localhost:8080>.
- Screenshot of the browser window showing the result of visiting your created HTML file, e.g., <http://localhost:8080/test.html>.