1. Create a folder or directory called frontend inside the SPA folder.
2. Inside the frontend folder, create index.html
3. In the index.html, change the document title to Single Page App
4. The script tag in the body should have type module
5. <script type=”module” scr=”static/js/index.js”></script>
6. The type set to module means we are giving modular structure to an application. A module specify which variables and functions can be accessed outside the module. A module is a file, one script is one module, modules can load each other and use special directive import and export to interchange functionality and call each other.
7. Then let your body also have this nav bar

<nav>

<a href=”/” class=”nav\_ \_link” data-link>Dashboard</a>

<a href=”/posts” class=”nav\_ \_link” data-link>Posts</a>

<a href=”/settings” class=”nav\_ \_link” data-link>Settings</a>

</nav>

1. Then open the command prompt and run,

npm init -y

1. The code in 8 above says an empty npm project should be generated, with -y implying the project should accept default without asking questions which means yes. Init stands for initialize. Before building a new project, we need to specify some of the project’s attributes like the project’s name, initial version, description, github repository, license information but name and version are the most important. Before you can run npm install, have node.js installed on your system. npm init helps create a package.json file in your current directory which houses the attributes specified above. package.json is said to contain attributes and even metadata for your project. Npm is package manager and installer, and it is the world’s largest code library containing over 800, 000 code packages that can be installed through the command line. Once you have installed nodejs, you have installed npm. Package.json file is essential if you intend to share your work, as it makes a fellow developer have an understanding of your project. JSON is JavaScript object Notation. During setting up my package.json file, I could not use npm init -y because of the name of my folder has space between them, so I used npm init, then setting my attributes up manually, during this I set license to ISC(which means you have granted access to use the package under any guise) and this is default and it means Internet systems consortium. License could also be UNLICENSED (granting no one right to the private or unpublished package, OR
2. Then after 8, let’s install express in the folder

npm i express

1. Express is a minimal and flexible node.js web application framework used to develop mobile and web applications. Number 10 above creates a node\_modules folder plus a package-lock.json file.
2. Then create a server.js file in the folder SPA
3. The server.js should contain

const express = require(“express”);

const path = require(“path”);

const app = express();

app.get(“/\*”, (req, res) => {

res.sendFile(path.resolve(“frontend”, “index.html”);

});

app.listen(process.env.PORT || 5000, => console.log(“server running…”));

1. Then in the command prompt, run node server.js or you can simply run node server
2. Then enter in your browser, localhost:5000, the index.html page is displayed.
3. In your index.js enter, console.log(“JS is loaded”);
4. Testing this, you would notice it does not work in the console, so add the following to the server.js to make linking with index.js possible. We are going to add \_\_dirname to reference the filename and folder of the current executing file.
5. So add the code below in addition to server.js

app.use(“/static”, express.static(path.resolve(\_\_dirname, “frontend”, “static”)));

/\*add \_\_dirname to app.get also as shown below \*/

app.get(“/\*”, (req, res) => {

res.sendFile(path.resolve(\_\_dirname, “frontend”, “index.html”));

});

1. express.static is used to expose a directory or file to a particular URL, so its content can be publicly accessed.
2. Since the server is well set up, then we can move to now set up your client side JavaScript now using the index.js
3. Enter the following in the index.js