

# Assignment 3A

**Here are the steps on how to create a nodeJS application which serves a static website :**

- 1. Create folder and open in it vs code**
- 2. Open cmd on this folder path**
- 3. After open cmd enter this command :**

```
>npm init
```

**Note : enter-enter (hit the enter button) 9-10 times up to finish the initialization**

**After that package.json file create in the project folder.**

**In the package.json file we see the main=index.js, that is entry point for this project so that's why we create index.js file in project folder**

The ``npm init -y`` command is a shortcut for initializing a new Node.js project with default settings without having to answer a series of questions interactively.

Breaking it down:

- ``npm``: This is the Node Package Manager command-line tool used for managing Node.js packages and projects.

- ``init``: This is a command used to initialize a new Node.js project.

- ``-y``: This is a flag that tells npm to use default values for all the prompts during initialization, essentially skipping the interactive setup process. It stands for "yes" or "yes to all".

So, when you run ``npm init -y``, it creates a ``package.json`` file in the current directory with default values for things like project name, version, description, entry point, test command, git repository, keywords, author, and license.

- 4. Create index.js file in project folder**

**5. Go cmd which path is up to project folder and install or we can say import the express module which cmd command follow as**

```
>npm install express --save
```

After the installation express module node\_module folder is created automatically in this all dependence are available for nodeJS.

The `npm install express` command is used to install the Express.js framework in your Node.js project.

Breaking it down:

- `npm`: This is the Node Package Manager command-line tool used for managing Node.js packages and projects.
- `install`: This is a command used to install packages listed in the `dependencies` section of the `package.json` file.
- `express`: This is the name of the package you want to install. In this case, it refers to the Express.js framework, which is a popular and minimalist web framework for Node.js.

So, when you run `npm install express`, npm will download the Express.js package and its dependencies and install them in the `node\_modules` directory of your project. Additionally, npm will automatically update the `package.json` file to include Express.js as a dependency.

**6. In the project folder we create new one more folder which name is public**

**7. After that go in side public folder and create index.html, style.css, (script.js)javascript files and write there respected code for web site**

**8. In the index.js file write following code :**

```
const express = require('express');
const app=express();
const PORT =4000;

app.use(express.static('public'));

app.listen(PORT,()=>{
    console.log(`server is strted on port no  http://localhost:${PORT}`)
})
```

**9. To run code, open cmd for project folder then following cmd command enter :**

```
>node index.js
```

**10. Open the chrome and type link which given in cmd or type manually on chrome :**

```
http://localhost:4000
```