the reason why we need nodeJS is to be able to build an applecation on the pc using Javascript

Node REPL

Read Eval Print Loop

this is what we come up with

u can see that node has found that file

and u can see the outcome

moham@Noxchi MINGW64 ~

$ cd 'c:/Web Development Projects/2.1 Using Node'

moham@Noxchi MINGW64 /c/Web Development Projects/2.1 Using Node

$ node index.js

Hello from Maga

file system in node js

we gonna use Common Javascript CJS

which gonna be the const fs = ....

we take the err function from fs.writefile

so it can look like this

1. fs.writeFile("message.txt", "Hello from NodeJS!", (err) => {
2. if (err) throw err;
3. console.log('The file has been saved!');
4. });

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when using utf8 argument u be telling the node to read the text By specifying **'utf8'**, you are telling Node.js to read the contents of the file as text and provide them to your **callback** function as a JavaScript string. This is useful when you're working with plain text files or when you want to process the file's content as text data. If the file was encoded in a different character encoding, you would need to specify that encoding to ensure the correct interpretation of the file's contents.

so the concept is that

1. const fs = require("fs");
3. fs.writeFile("message.txt", "Hello from NodeJS!", (err) => {
4. if (err) throw err;
5. console.log('The file has been saved!');
6. });
8. makes a file and adds it with Hello from NodeJS inside it


12. const fs = require("fs");
14. fs.readFile('./message.txt', "utf8", (err, data) => {
15. if (err) throw err;
16. console.log(data);
17. });
19. reads what it has in the file
21. they both console log it in the terminal

NPM node package Manager

so the npm is tools "code" that ppl share so u can use them and its an open source

if u wanna use npm u do npm init in the terminal

1 first it asks for package name : we name it learning-npm (enter)

2 then it will ask for the version which is (1.0.0) (enter)

3 then u can add a description: Im learning about NPM (enter)

4 then the entery point : will be (index.js) (enter)

5 test command : we will leave as empty  (enter)

6 git repository : as well empty (enter)

7 keywords : empty (enter)

8 author : maybe put your name in this case mohammad (enter)

9 license : we leave it as "ISC" (enter)

then it asks us if this OK? then we type y for yes then (enter)

198. The NPM Package Manager and Installing External Node Modules

install npm package

npm install <something>

198. The NPM Package Manager and Installing External Node Modules

how dose npm works with calling names with js

198. The NPM Package Manager and Installing External Node Modules

ECMAScript modules ESM

we add type : "module",

to the package.json file so we can upgrade our code to ECMAScript ESM

KEEP IN MIND THERES TWO TYPES OF INPUTING IN NPM NODE.JS

THERES THE // var generateName = require("sillyname");

UND // const superheroes = require("superheroes");

AND THIS ONE IS THE NEWEST

must add the type: module in the package.json file

npm init -y means im saying yes to everything

199. [Project] QR Code Generator

watch the vid to know how to make QR codes