NPM : Streamlined Workflow

DIY - 48

Question 1: What is Node JS?

Node.js is a runtime environment that allows you to execute JavaScript code on the server side. It is built on Chrome's V8 JavaScript engine and provides an event-driven, non-blocking I/O model that makes it efficient and scalable for handling a large number of simultaneous connections. Node.js is widely used for building server-side applications, APIs, and real-time applications like chat servers and online games. It is known for its ability to handle asynchronous operations and its single-threaded nature, which is well-suited for I/O-heavy tasks.

Question 2: What is NPM?

NPM (Node Package Manager) is a package manager for Node.js that simplifies the management of libraries and dependencies in a Node.js project. It allows developers to easily install, update, and manage third-party libraries and tools. NPM provides access to a large repository of open-source packages and modules that can be included in projects to add functionality without having to develop everything from scratch. It also supports scripts for automation and configuration management.

Question 3: Create a file app.txt with "This is a test file" as text using FS Module.

```javascript
const fs = require('fs');

// Define the file path and content
const filePath = 'app.txt';
const content = 'This is a test file';

// Write the content to the file
fs.writeFile(filePath, content, (err) => {
    if (err) {
        console.error('Error writing to file:', err);
    } else {
        console.log('File created successfully!');
    }
});
```

Explanation:

1. **const fs = require('fs');: Imports the fs module, which provides file system operations.**

2. **fs.writeFile(filePath, content, callback): Writes the specified content to the file. If the file does not exist, it will be created. The callback function handles any errors that occur during the operation and logs a success message if the file is created successfully.**

Running the Script

Save the code in a file named createFile.js, then run it using Node.js from the command line: