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**WEB 340 Node.js**

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## Discussion 1.1 – What is Node.js

Node.js is a JavaScript runtime built on Chrome's V8 JavaScript engine. It allows developers to run JavaScript on the server side, which enables the creation of server-side applications with JavaScript.

Node.js is commonly used to build server-side applications, such as web servers and APIs. It is also often used to build command-line tools and to run build scripts. Node.js is widely used because it allows developers to write server-side code using the same language that they use for client-side code, which can make it easier to develop full-stack applications.

There are some key differences between Node.js and JavaScript. JavaScript is a programming language that is primarily used to build client-side applications, such as web browsers, whereas Node.js is a runtime environment that allows developers to run JavaScript on the server side.

The Chrome V8 engine is a high-performance JavaScript engine that is developed by Google. It is written in C++ and is used to execute JavaScript code. The V8 engine is used by many web browsers, including Google Chrome, as well as by Node.js.

NPM, or the Node Package Manager, is a package manager for the JavaScript programming language. It is used to install and manage packages, or collections of code, that are used in Node.js applications. NPM is the default package manager for Node.js, and it is widely used to manage dependencies, or external libraries and tools, that are used in Node.js projects.

NPM is used because it makes it easy for developers to share code and reuse it in their own projects. It also makes it easy to update and maintain dependencies, as NPM allows developers to install and update packages easily. NPM is an important tool for developers who are building applications with Node.js, as it will enable them to efficiently manage the libraries and tools that they need to develop their applications.

## References

Node.js. (2023). *About | Node.js*. Node.js. <https://nodejs.org/en/about/>

*Node.js Introduction*. (2022). W3schools.com.

[https://www.w3schools.com/nodejs/nodejs\\_intro.asp](https://www.w3schools.com/nodejs/nodejs_intro.asp)