

Node JS - Intro

A JS Runtime Environment built on using V8 JS Engine developed by google.

History

- In Initial period, JS is a language that used in client side for enhancing the user experience. In World of web with static content JS helped in bringing dynamic experience there.

Example: Toggling Menu Bar

Did You Know: Initial JS was developed in 10 Days



- The Browser have different JS engines to execute the JS code.
- There is no ways to execute the JS code outside the browser.
- Then a technology called Netscape Livewire was introduced in 1996 which execute the JS code in server side.
- It also not become professional standard due to multiple reasons.
- In 2008, Google introduced the new V8 JS engine in their chrome browser which is a starting point for Node JS.
- In 2009, Node JS was introduced. It allow us to execute JS code outside the browser world. The V8 Engine was used.

But Why JS on Server Side . This Question will arise?



1. The Google V8 Engine was so fast in terms of performance. What happens if we use the same on server side?
2. By introducing JS as a backend language, there is no need to learn different language for backend. One for Both. Here the term booms Full Stack Developer

Apart from above reason, there are more there.



- It not only provides features that browser V8 Engine was providing, on top of that many other core features are added.

Example:

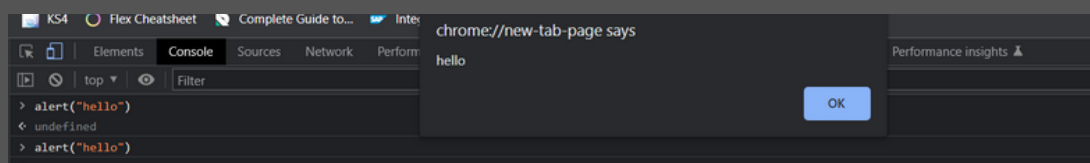
1. Reading and writing File
2. Accessing Database

These are not possible in browser level.

- It also not support some of the feature what browser was supporting

Example:

Alert Function in Browser



Alert Function in Node JS

```
Node.js command prompt
Your environment has been set up for using Node.js 16.13.2 (x64) and npm.

C:\Users\Nagaraj>node -v
v16.13.2

C:\Users\Nagaraj>alert("hello")
'alert' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Nagaraj>
```