<https://nodejs.org/en/>

node --version

Node does not have window and document objects

**Node core**

**Module system**

setTimeout();

clearTimeout();

setInterval();

clearInterval();

These methods are defined in **global** object.

When variable and function declared will not be declared in global scope.

To install jshint 🡪 npm i jshint

jshint app.js 🡪 to check errors in js code

npm

async js

crud operation

data validation

Authentication and authorization using json web token

Role management

Handling and logging errors

Unit and integration testing

Test-driven dev

<https://nodejs.org/dist/latest-v8.x/docs/api/>

Path module

Os module

File system module

Events module

http module

console.log()

console.error()

console.warn()

console.log('Hello %s', 'JavaTpoint');

console.error(new Error('Hell! This is a wrong method.'));

const name = 'John';

console.warn(`Don't mess with me ${name}! Don't mess with me!`);

Microsoft Windows [Version 10.0.15063]

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C:\Users\nirpanig>node

> 10+20-5

25

> 10+20-5-2

23

>

(To exit, press ^C again or type .exit)

>

C:\Users\nirpanig>

1. npm  version
2. npm install express
3. npm install express -g 🡪 global install
4. npm uninstall express
5. npm ls
6. npm search express

Node.js global objects are global in nature and available in all modules. You don't need to include these objects in your application; rather they can be used directly. These objects are modules, functions, strings and object etc. Some of these objects aren't actually in the global scope but in the module scope.

A list of Node.js global objects are given below:

\_\_dirname

\_\_filename

Console

Process

Buffer

setImmediate(callback[, arg][, ...])

setInterval(callback, delay[, arg][, ...])

setTimeout(callback, delay[, arg][, ...])

clearImmediate(immediateObject)

clearInterval(intervalObject)

clearTimeout(timeoutObject)

Node.js Timer

Node.js Timer functions are global functions. You don't need to use require() function in order to use timer functions. Let's see the list of timer functions.

**Set timer functions:**

* **setImmediate():** It is used to execute setImmediate.
* **setInterval():** It is used to define a time interval.
* **setTimeout():** ()- It is used to execute a one-time callback after delay milliseconds.

**Clear timer functions:**

* **clearImmediate(immediateObject):** It is used to stop an immediateObject, as created by setImmediate
* **clearInterval(intervalObject):** It is used to stop an intervalObject, as created by setInterval
* **clearTimeout(timeoutObject):** It prevents a timeoutObject, as created by setTimeout

**Debug configuration in vs code**

<https://code.visualstudio.com/docs/editor/debugging#_launch-configurations>

npm install –g express-generator

C:\project\nodejs workspace>express express\_website -🡪 to create project structure node express

warning: the default view engine will not be jade in future releases

warning: use `--view=jade' or `--help' for additional options

create : express\_website\

create : express\_website\public\

create : express\_website\public\javascripts\

create : express\_website\public\images\

create : express\_website\public\stylesheets\

create : express\_website\public\stylesheets\style.css

create : express\_website\routes\

create : express\_website\routes\index.js

create : express\_website\routes\users.js

create : express\_website\views\

create : express\_website\views\error.jade

create : express\_website\views\index.jade

create : express\_website\views\layout.jade

create : express\_website\app.js

create : express\_website\package.json

create : express\_website\bin\

create : express\_website\bin\www

change directory:

> cd express\_website

install dependencies:

> npm install

run the app:

> SET DEBUG=express-website:\* & npm start

C:\project\nodejs workspace>

To add all the dependency to the project we have to run the command in project folder

Npm install

To update the package.json file with latest version of dependency

npm i -g npm-check-updates

ncu -u

npm install