# CS4220 Node.js & Angular.js

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## **Command Line Interfaces (CLI)**

Command-line Interfaces or Command-line Applications, are programs designed to be used from the terminal/command-prompt. Command-line applications usually accept inputs as arguments. Additionally, they can accept options, often referred to as flags.

## Examples:

- npm
- git

## **Node Command Line Args**

#### process.argv

Returns an array containing the command line arguments passed when the Node.js process is run.

- The first element will be the Node.js executable path.
- The second element will be the path to the .js file being executed.
- The remaining elements will be any additional command line arguments.

```
const args = process.argv
console.log(args)
```



APIs (application programming interfaces) are a big part of web apps.

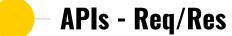
The four methods most commonly seen in APIs are:

**GET** - Asks the server to retrieve a resource

**POST** - Asks the server to create a new resource

**PUT** - Asks the server to edit/update an existing resource

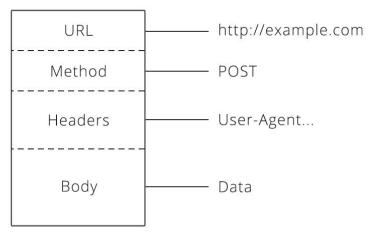
**DELETE** - Asks the server to delete a resource



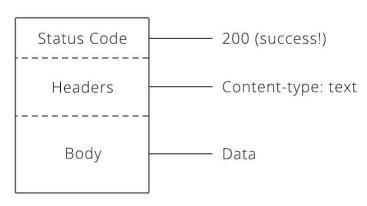
Communication in HTTP centers around a concept called the Request-Response Cycle.

The client sends the server a request to do something. The server, in turn, sends the client a response saying whether or not the server could do what the client asked.

## APIs - Req/Res



Request Response

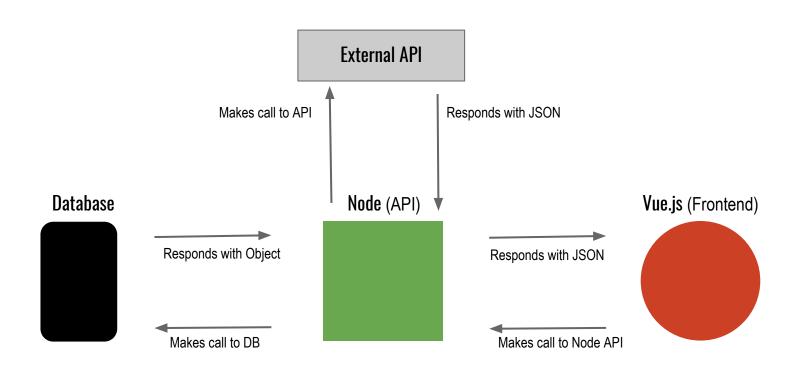




APIs have adopted JSON as a format because it's built on the JavaScript, which is found everywhere on the web and usable on both the client side and server side of web apps.

JSON is a very simple format that has two pieces: keys and values. Keys represent an attribute about the object being described.





## **NPM Basics**

## npm init

// assist in creating the package.json.

### npm install

// installs all modules in the package.json - installed in the node\_modules directory.

### npm install --save <module-name>

// installs the module by name and auto-magically adds it to package.json.

### npm uninstall --save <module-name>

// removes the module by name and auto-magically removes it to package.json.



**Chapter 18 Eloquent JavaScript** 

http://eloquentjavascript.net/18\_http.html

Intro to APIs

https://zapier.com/learn/apis/chapter-1-introduction-to-apis/