



JavaScript

NodeJs

Visual
Studio Code

Create a new repository



Name

UC7_BackEndNode

Description

UC7: Codificar back-end de aplicações web

Local path

C:\xampp\htdocs

Choose...

☒ Initialize this repository with a README

Git ignore

Node



License

MIT License

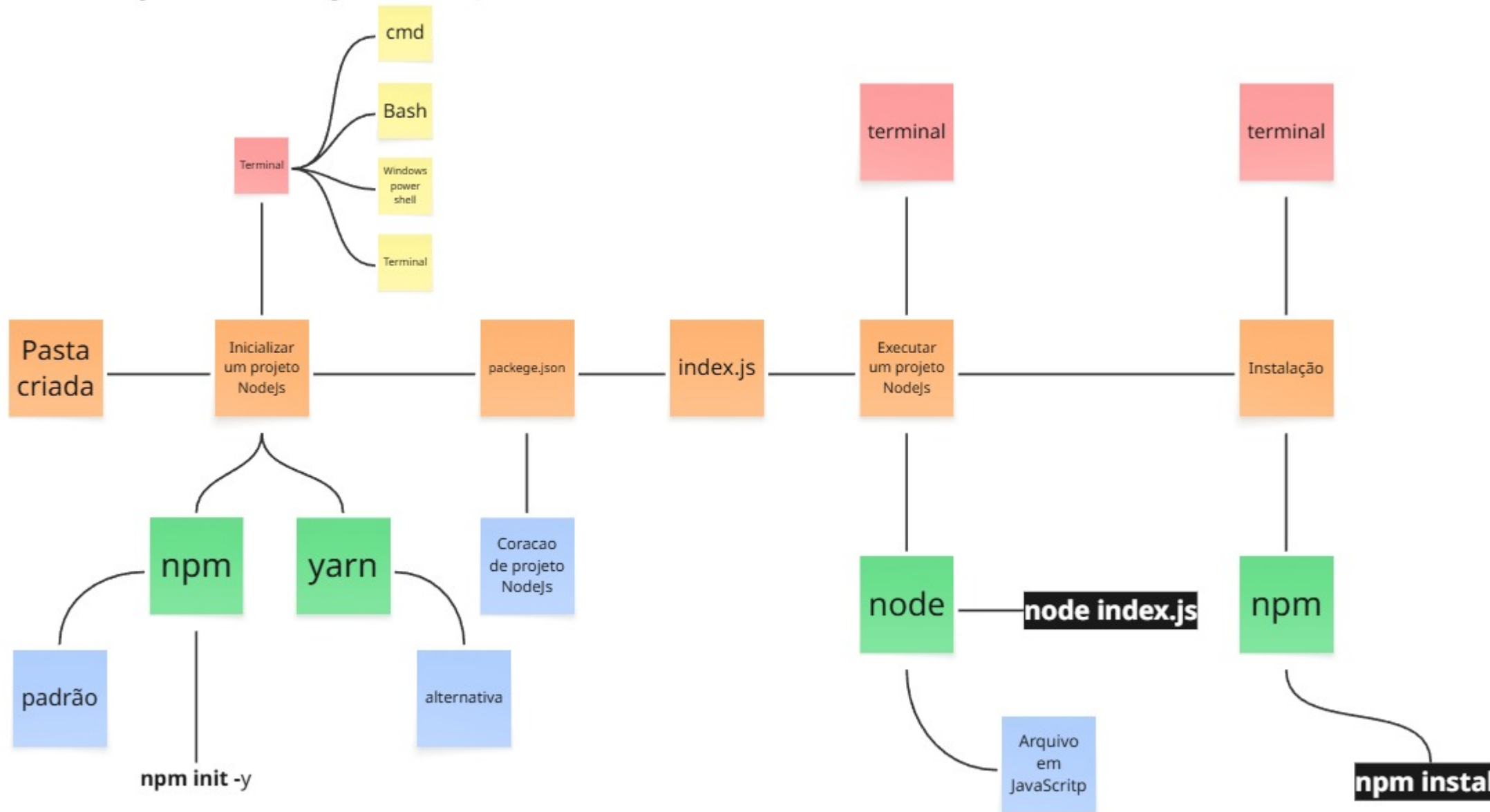


The repository will be created at C:\xampp\htdocs\UC7_BackEndNode .

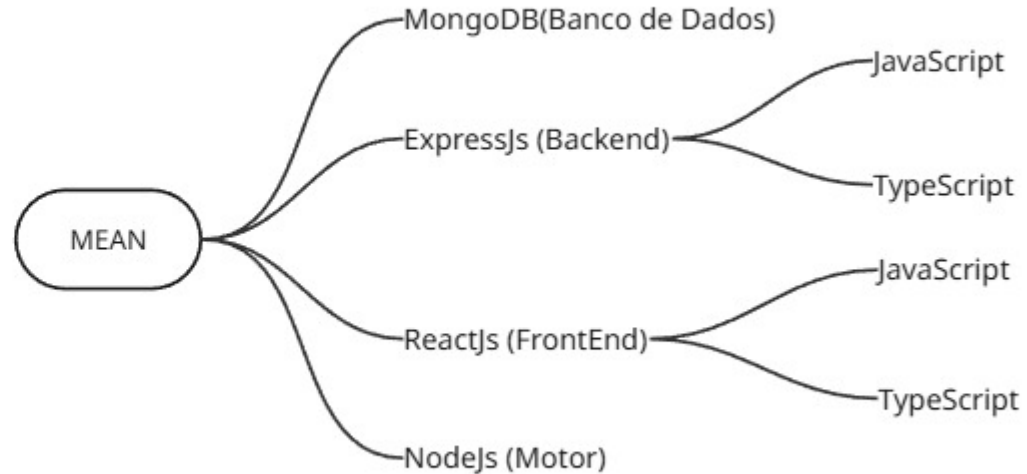
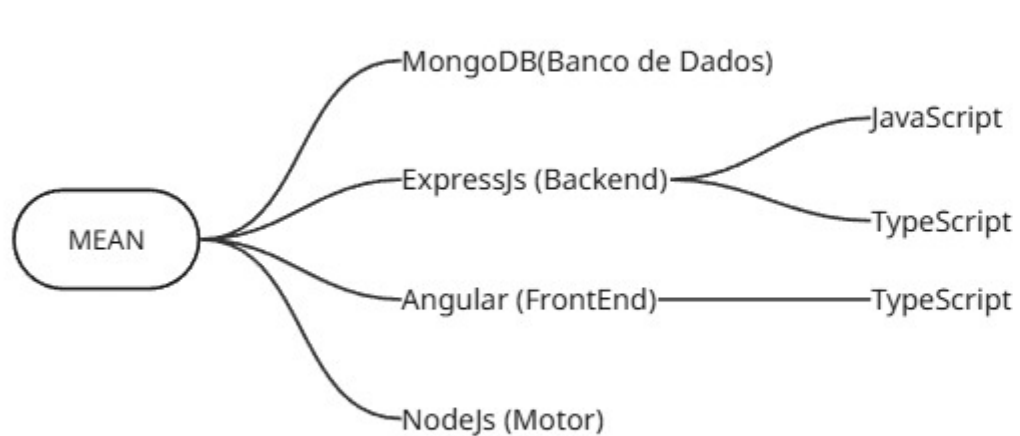
Create repository

Cancel

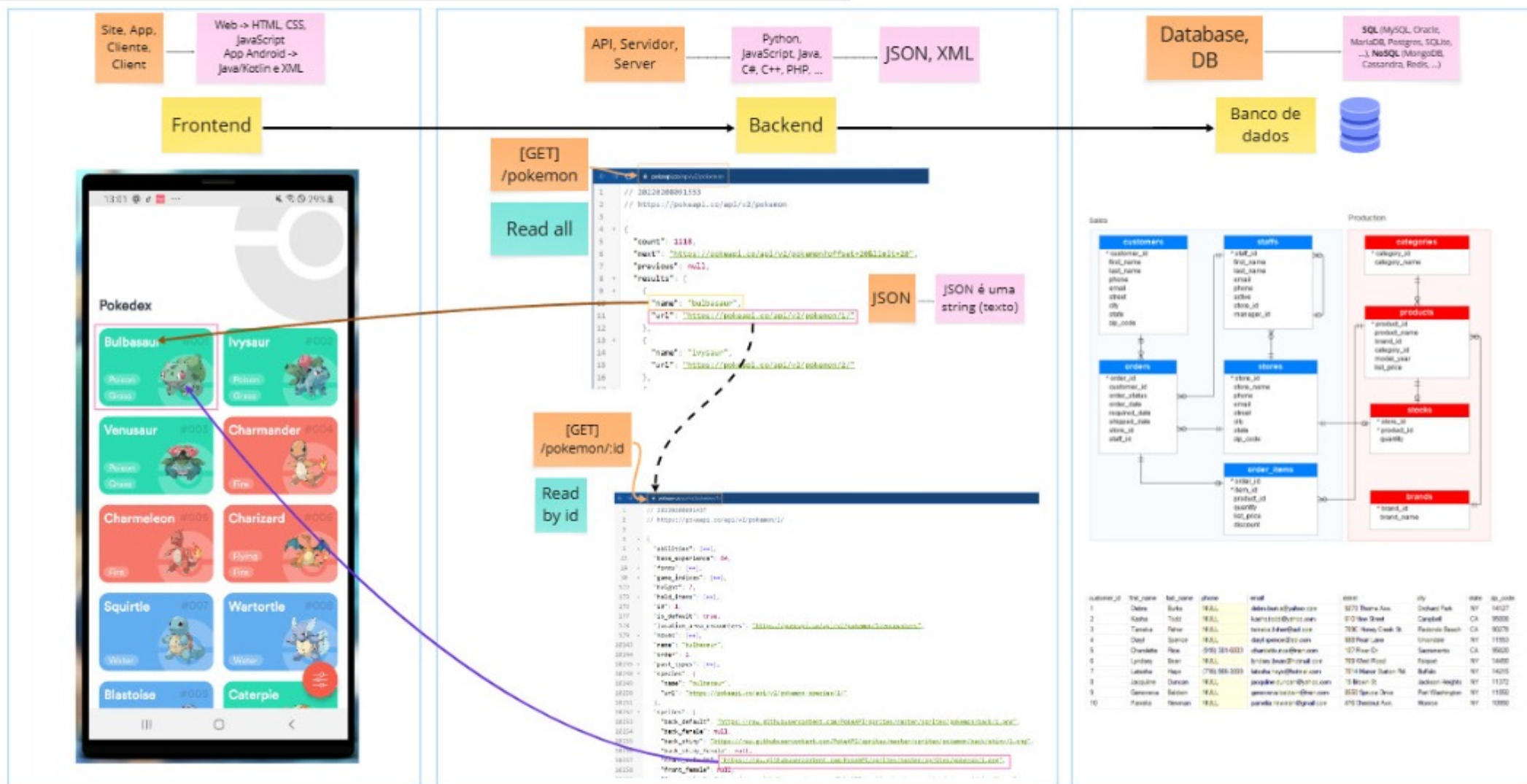
Fluxo de Criação de um Projeto Nodejs



stack



Direção do fluxo de dados



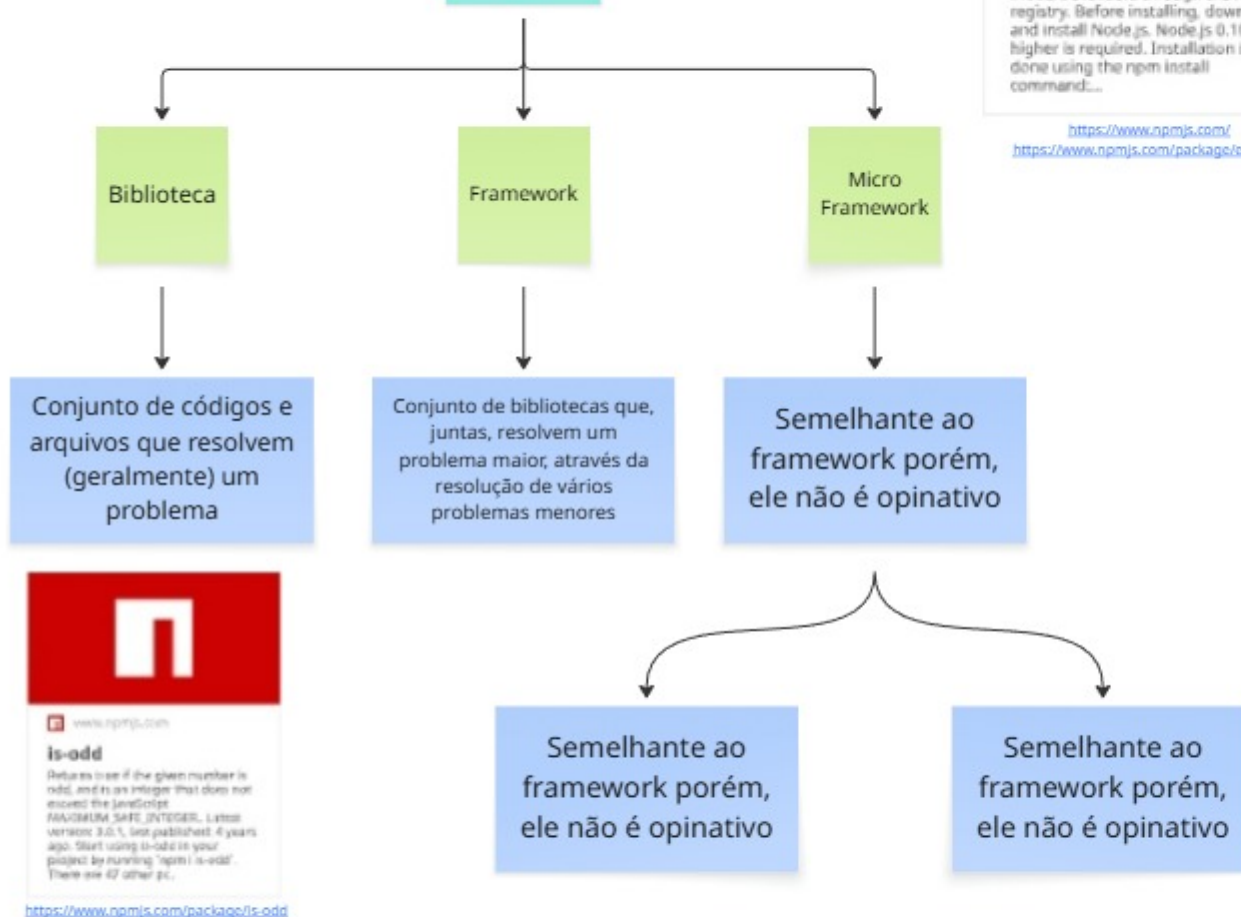


Index.js

```

2025.11.04_InicioNode > JS index.js > ...
1  const express = require("express")
2  const app = express()
3  app.get('/', function (req, res) {
4    |   res.send('Olá, Mundo')
5  })
6
7  app.listen(3000)
8
  
```

Pacotes do npm



package.json

```

2025.11.04_InicioNode > package.json > {} scripts > start
1  {
2    "name": "2025.11.04_inicionode",
3    "version": "1.0.0",
4    "description": "Primeiro projeto node",
5    "main": "index.js",
6    "scripts": {
7      "test": "echo \"Error: no test specified\" && exit 1",
8      "start": "node index.js"
9    },
10   "author": "",
11   "license": "ISC",
12   "dependencies": {
13     "express": "^5.1.0"
14   }
15 }
  
```

Para utilizar pacotes, precisamos instalá-los

npm install

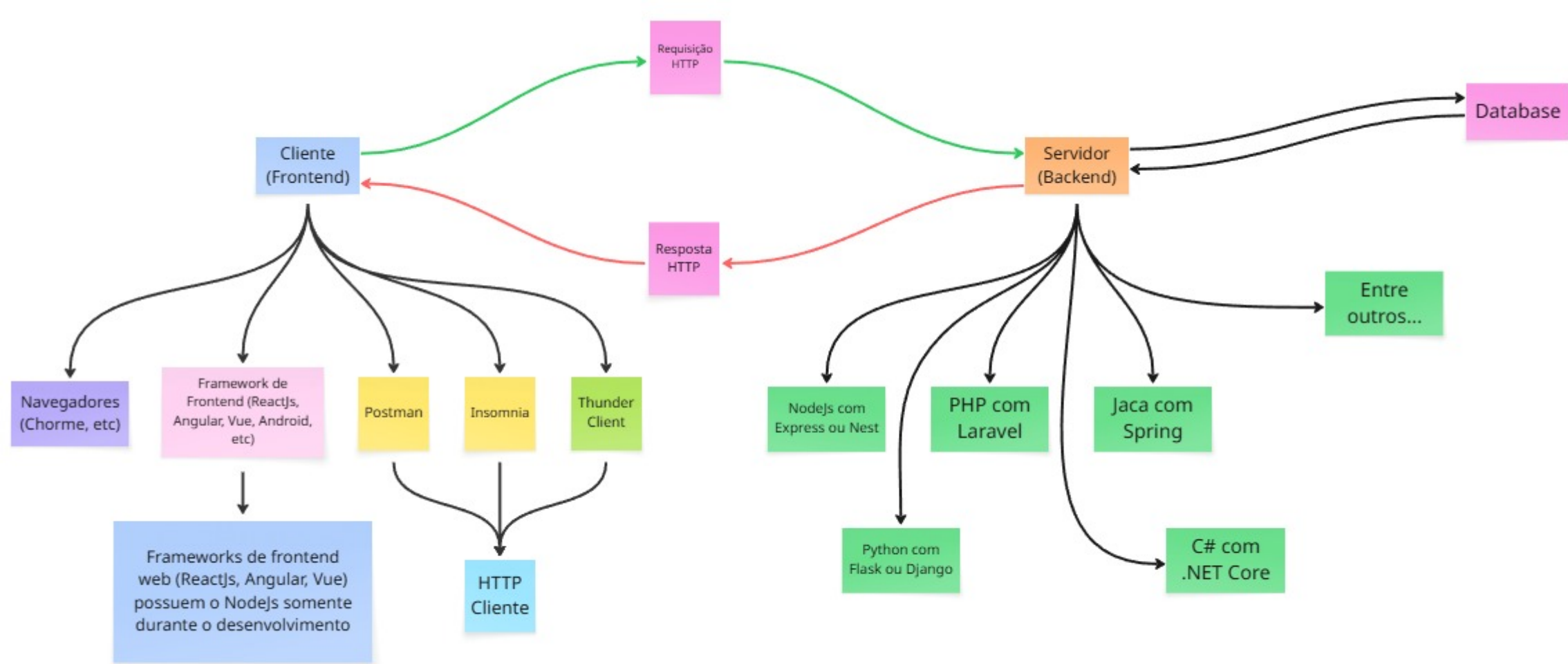
nome_pacote

npm - install express

npm i express

npm install --save-dev nodemon

npm i



```
2025.11.04_InicioNode > JS index.js > ...  
1  const express = require("express")  
2  const app = express()  
3  app.get('/', function (req, res) {  
4    res.send('Olá, Mundo')  
5  })  
6  
7  app.listen(3000)  
8
```

app

Frameworks de frontend
Web (reactjs, Angular, Vue)
possuem o Nodejs somente
deurante o desenvolvimento

Nosso
Computador

Placa de
Rede

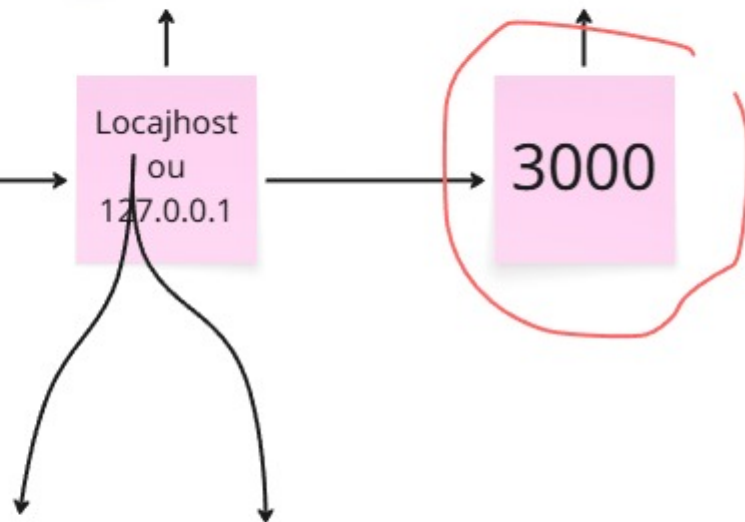
Portas

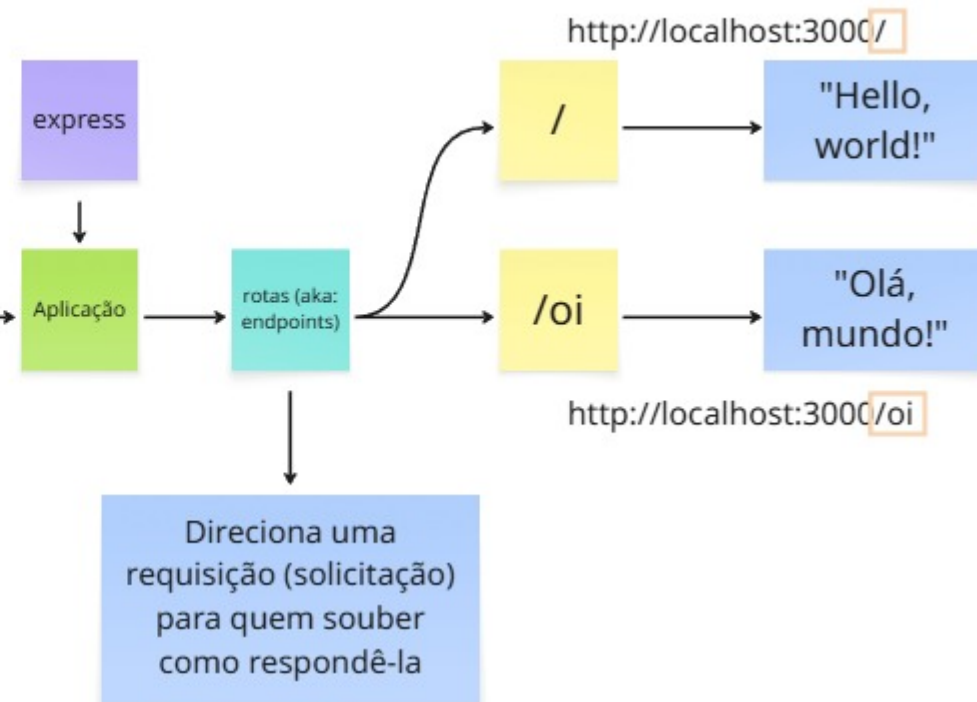
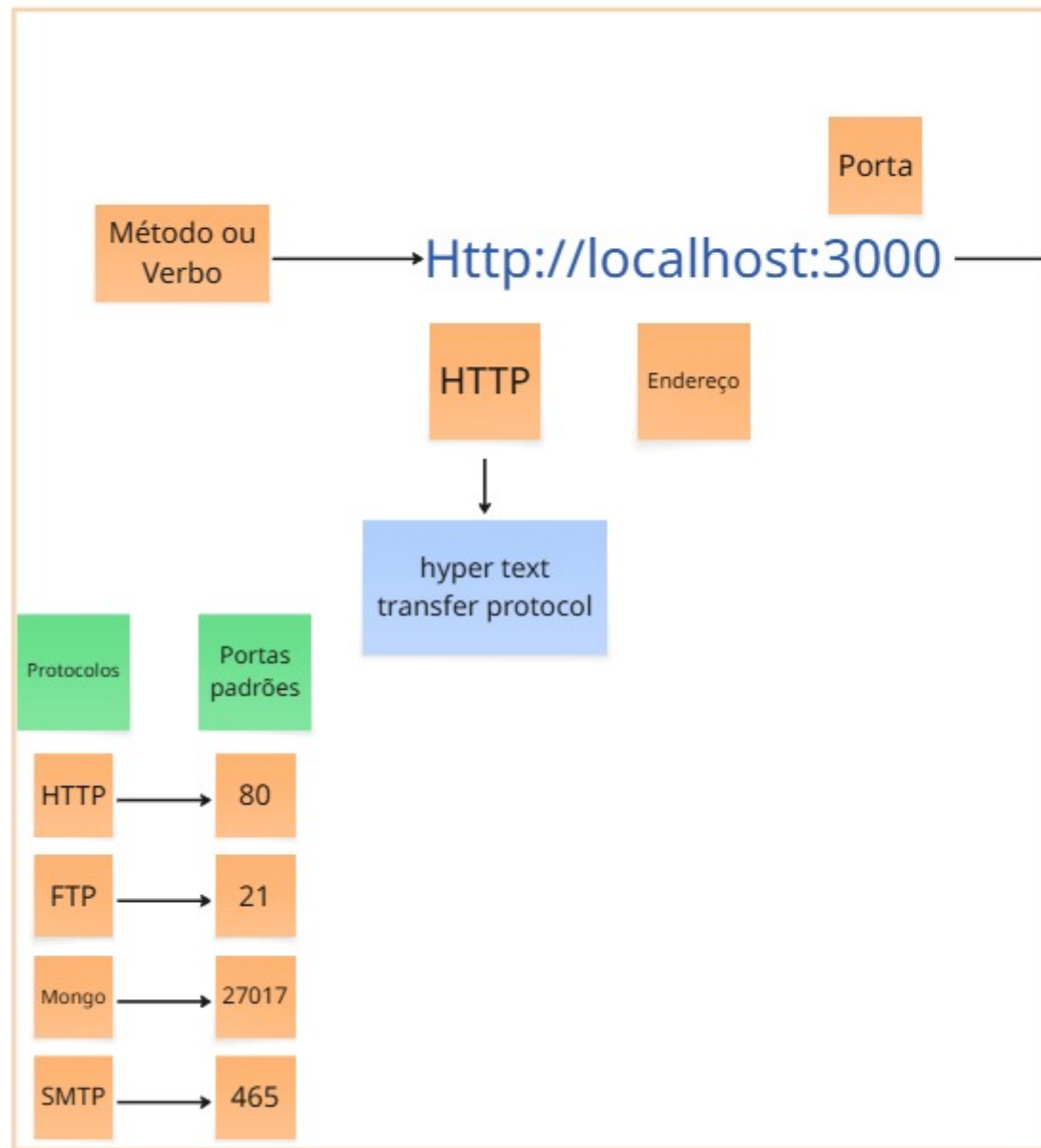
Endereço

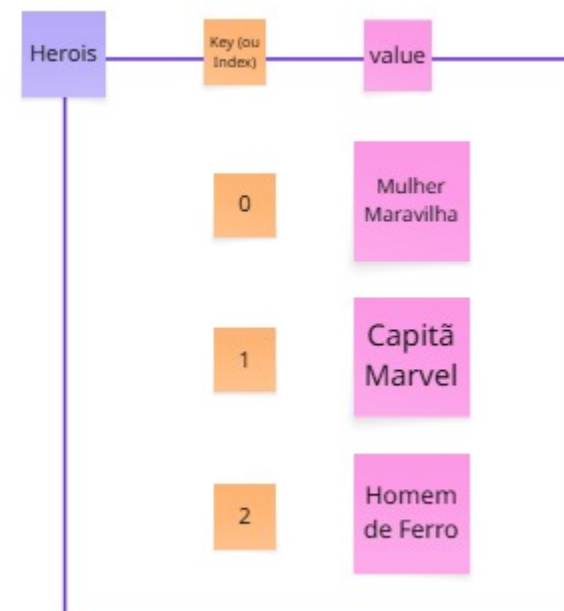
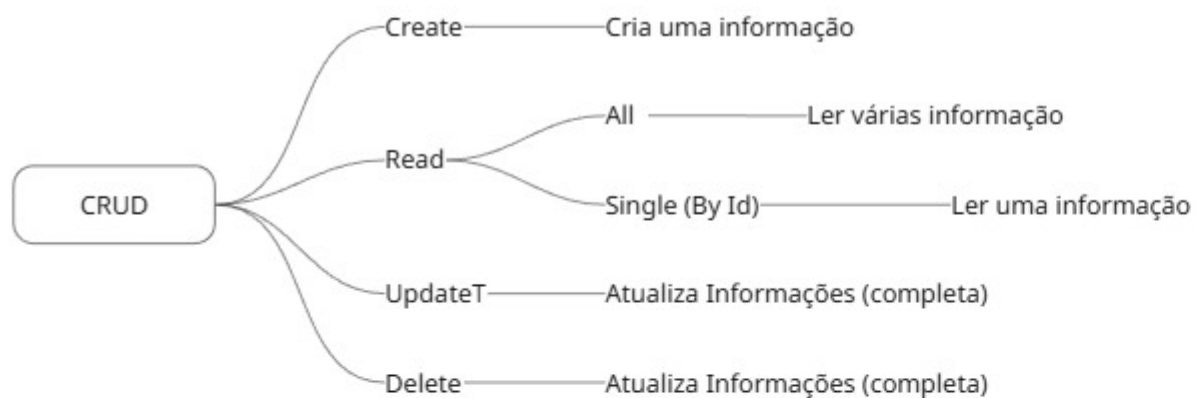
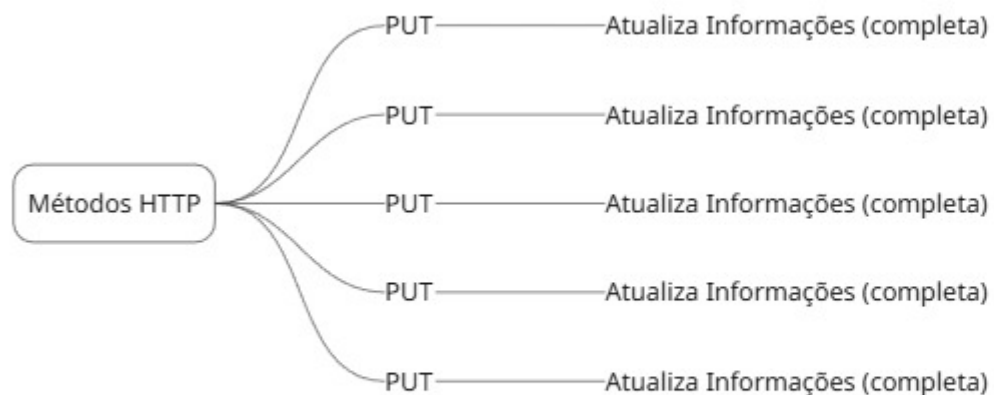
Porta

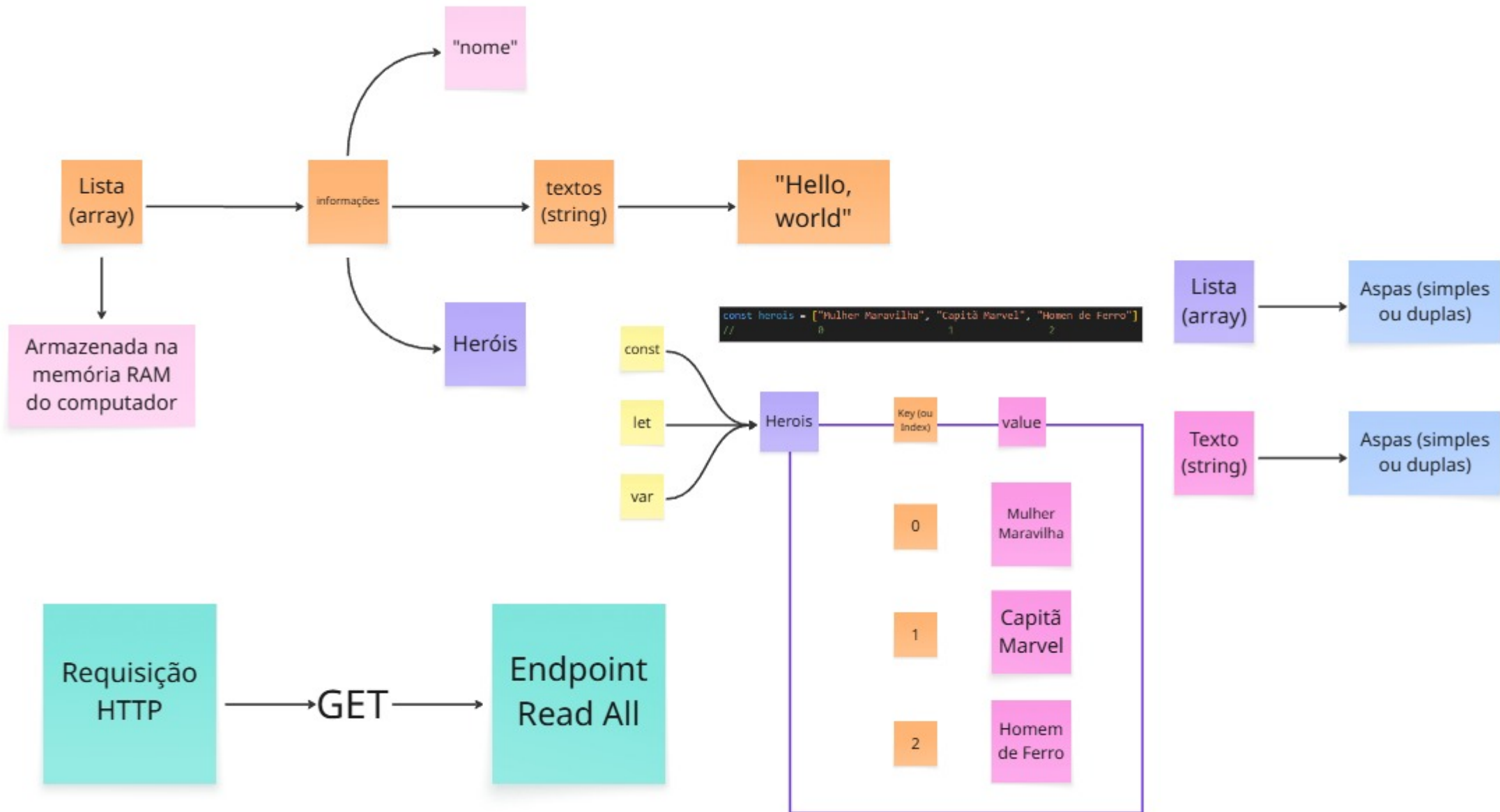
Localhost
ou
127.0.0.1

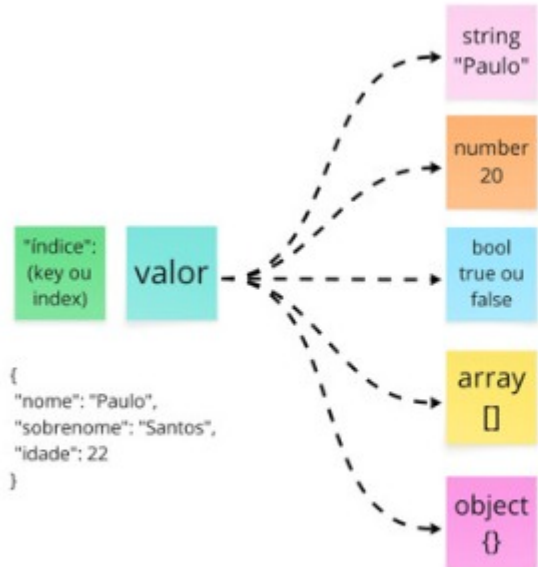
3000



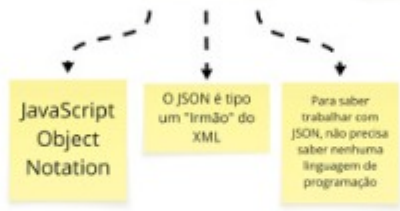
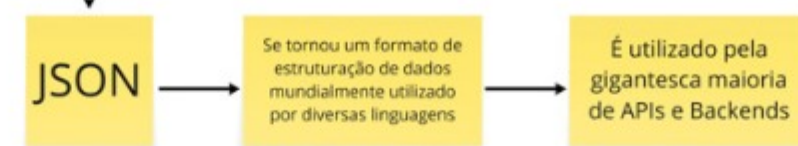
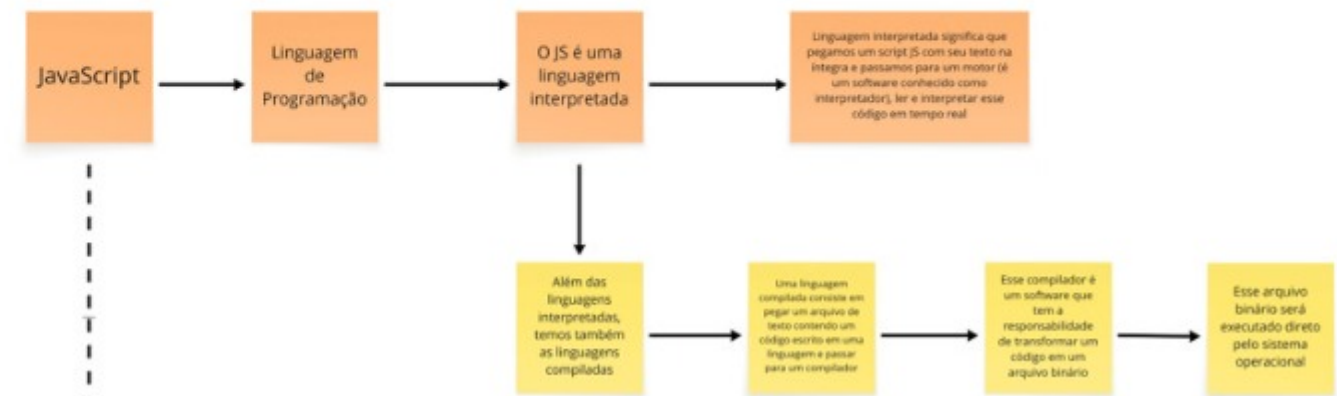
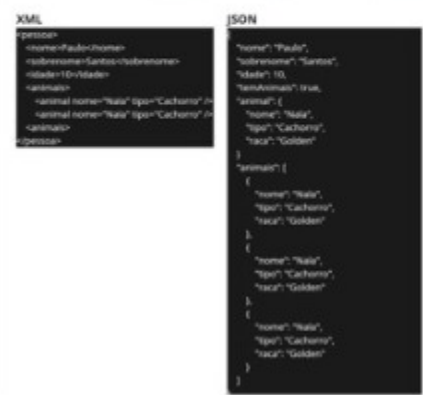
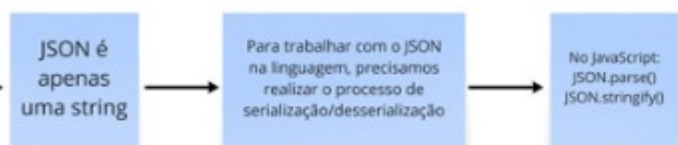




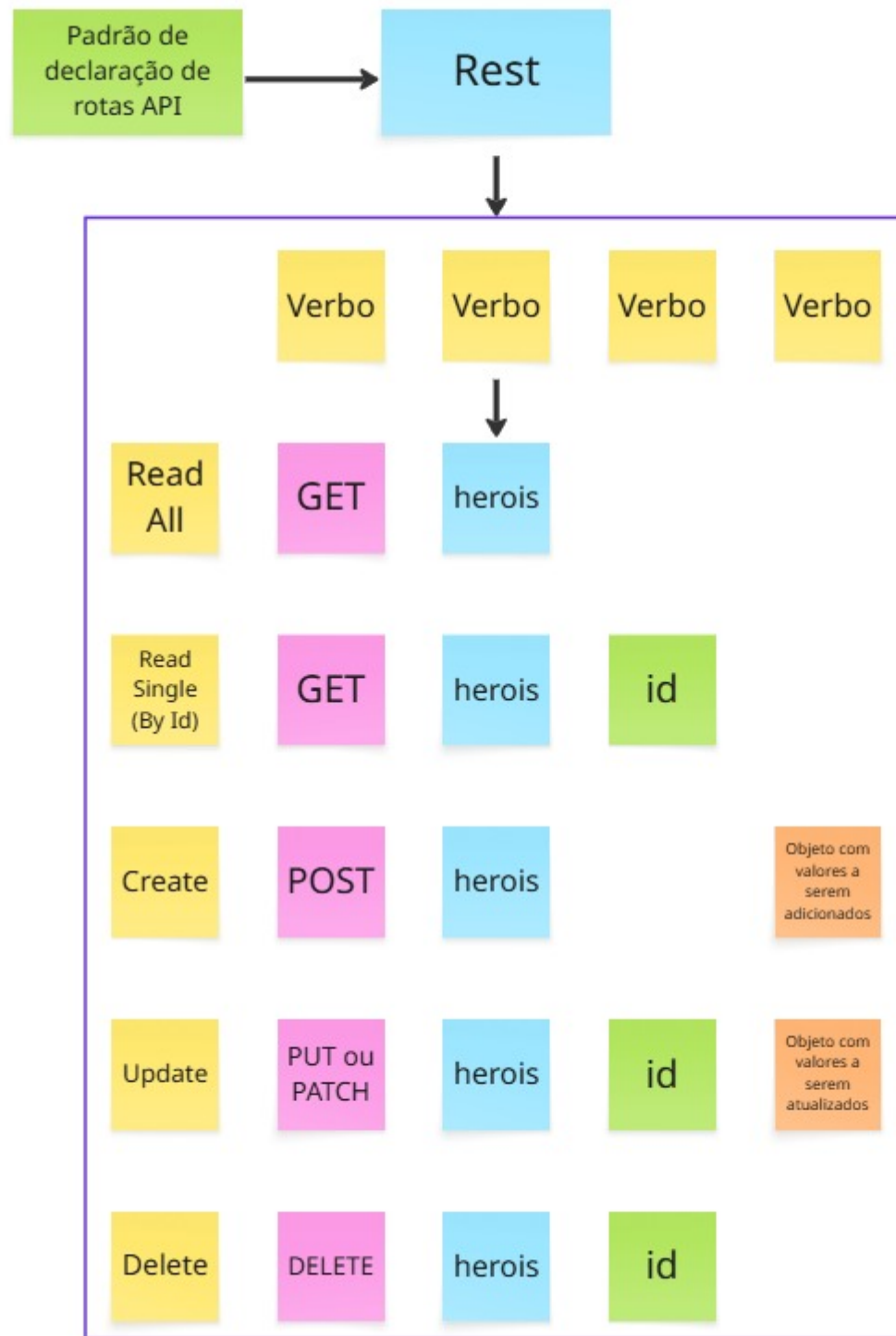


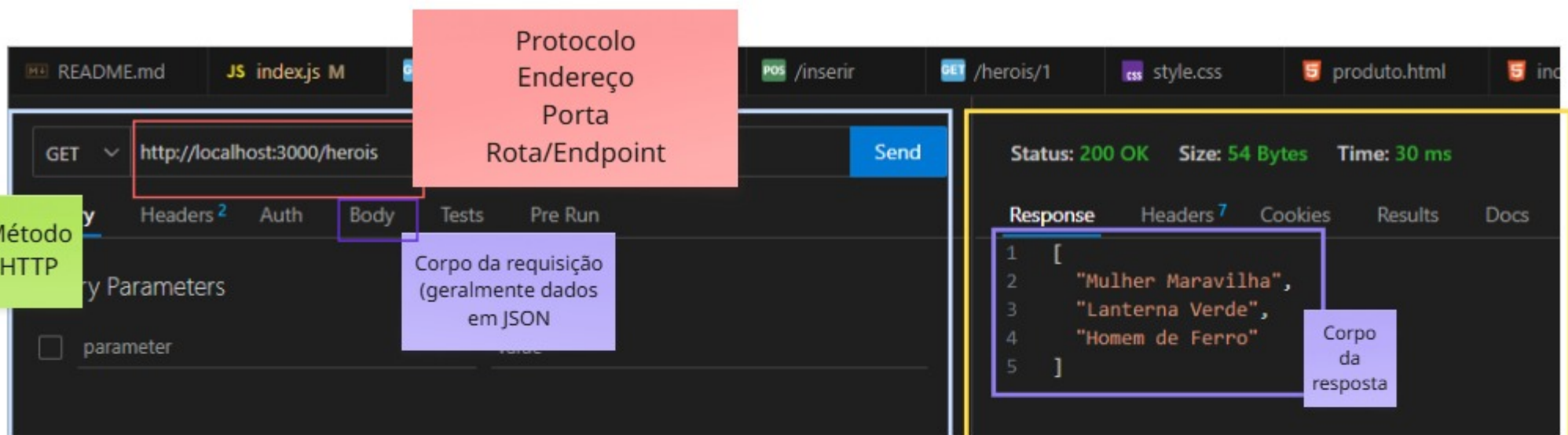


JSON



```
1 // 2020/08/01/150
2 // https://pokeapi.co/api/v2/pokemon
3
4 {
5   "count": 1138,
6   "next": "https://pokeapi.co/api/v2/pokemon?offset=28&limit=20",
7   "previous": null,
8   "results": [
9     {
10      "name": "bulbasaur",
11      "url": "https://pokeapi.co/api/v2/pokemon/1/"
12    },
13     {
14      "name": "ivysaur",
15      "url": "https://pokeapi.co/api/v2/pokemon/2/"
16    },
17     {
18      "name": "venusaur",
19      "url": "https://pokeapi.co/api/v2/pokemon/3/"
20    },
21     {
22      "name": "charmander",
23      "url": "https://pokeapi.co/api/v2/pokemon/4/"
24    },
25     {
26      "name": "charmeleon",
27      "url": "https://pokeapi.co/api/v2/pokemon/5/"
28    },
29     {
30      "name": "charizard",
31      "url": "https://pokeapi.co/api/v2/pokemon/6/"
32    }
33 ]
34 }
```





Requisição

Resposta

JSON

JavaScript
object
Notation

XML

Outros
formatos
de dados

Formato
de
estrutura
de dados

É mais comum
que o primeiro
nível de um
JSON seja um
objeto

}

CSV

Na prática,
o JSON é
uma string

Aplicamos um processo
chamado 'parse' nessa
string, para transformá-la
em objeto da linguagem em
questão

Parâmetros
de rota

Sempre são
considerados
inicialmente
com string

No caso de ID,
precisamos
convertê-lo
para numero
(number)

Herois

[GET] <http://localhost:3000/herois/id>

req.params

{"id": "1"}

req.params.id //"1"

Response

Headers ⁶

```
1  {  
2    "id": 1  
3  }
```

0

Mulher
Maravilha

1

Capitã
Marvel

2

Homem
de Ferro