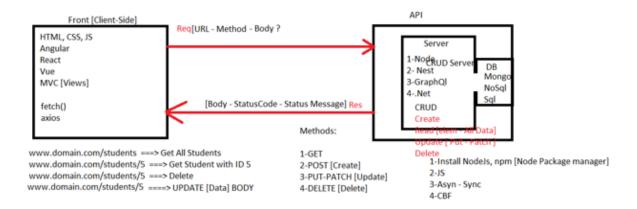
Day1 🧩 Node Js

Js code run in server side



Server it is a layer between frontend and database Apply all crud operation

**By Node Can do

- Http server
- Tcp server
- Web chat app

Steps:

1. Install Node Js , npm

Some command $\underline{\mathbf{c}}$

 $Ctrl+c \rightarrow to logout from node$

.editor→ to enter editor mode

Ctrl+d → finish the code

.save filename.js

.load filename.js

Async عند الحتة دى دا هرميها في block عند الحتة عادى ⇒Async

In Node -> Single thread && Non Blocking

In js there 4 main categories

- 1. Built in Object [Array, Number, Function,...]
- 2. DOM [Document]
- 3. BOM
- 4. Custom Objects

In Node there 4 Modules

- 1. Global [without required]
- 2. Built in Module
- 3. Third Party Module
- 4. Custom Module
- 1) Global Module

```
بدل ال import يعنى فيها شوية حاجات بستخدمها على طول من غير ما اكتب required
```

Ex:

Console

Set Time Out

2) Built in ⇒ Need Required

```
Ex 1: os—require("os")
```

كدا بتعمل import للفايل ده

```
const os=require("os");
console.log(os.hostname);
```

Ex 2:fs-require("fs")

Read / Create / Update / Delete

2.1)

```
const fs=require("fs");
fs.readFile("Hamada.txt","utf-8",(err,data)=>{
    if(err)
    {
       console.log(err);
    }else{
       console.log(data);
    }
})
```

2.2) writeFile ⇒ do override on the file

```
(لو الفايل مكنش موجود هيعملو كريت)
```

- 2.3)to appendFile ⇒add to the file
- 2.4)unlink⇒ to delete file

```
const Server= http.createServer((req,res)=>{
    if(req.url !== "/favicon.ico") {
        //step 2 know operator
        let inputs=req.url.split('/');
        let operator=inputs[1];
        let nums=inputs.slice(2);
        let result=0;
        switch (operator)
        {
            case 'add':
                result=add(...nums)
            case 'sub':
                result=sub(...nums)
                break;
            case 'mult':
                result=mult(...nums)
                break;
            case 'divid':
                result=divid(...nums)
                result="Sorry Can't detect this operation";
                break;
        }
        fs.writeFileSync("Hamada.txt","Your Result =
"+result.toString()+"\n")
    }
    res.end()
}).listen(7000,()=>{console.log("lise")})
```