

Node.js

Functions → API

node ← → k sign
node ↗

.help ← → Node → Help ↗

.exit ← node ↗
node ↗

clear ← node ↗
node ↗

npm init ← → io / npm
npm init ↗
(package.json)

npm install <something> ← install ↗
npm ↗

fs →
file system
file system

const fs = require("fs")
fs → file system

fs.writeFile(file, data, callback)

fs.writeFile("msg.txt", "hello", (err) => {
if (err) throw err; ↗

it (err) throw err;

console.log("good")
 };
 ← JS JS
 msg.txt read err log
 "Hello" JS to PC JS

```

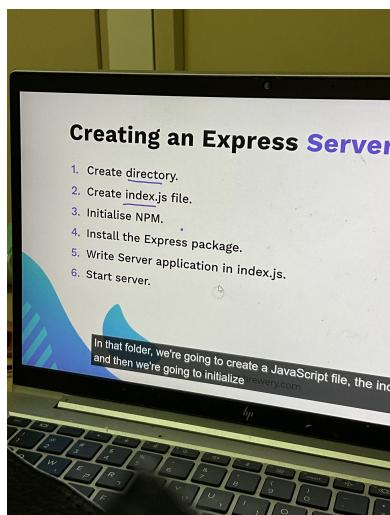
fs.readFile("file", "utf-8", (err, data) => {
  if (err) throw err;
  console.log(data);
});
```

qr-image ← JS JS
Docker

inquirer.js ← Ch Node
Environment

type: number? json file render on ! ! ! ! !
 import? file require? render if se

Express.js



→ JS file
Express → JS

5(1) mkdir ("התקן") → make directory (1)
 cd → מתרנץ לסקורו (2)

touch → יוצרים index.js פונקציית (2)
 json פונקציית כוונת npm init -y (3)

פונקציית express ← npm i express (4)
 json פונקציית min { "type": "module", פונקציית

: מודול index.js פונקציית מודול (5)

import express from "express";

const app = express(); תוצאות נס佝ה

app.listen(3000, () => { ← סוכן נס佝ה const port = 3000
 port → נס佝ה כונן (6)

console.log('server running on port 3000.');

});

node index.js פונקציית וריאט (6)

http

GET → request resource

POST → sending resource

PUT → replace resource

PATCH → patch up a - " ") ← update, also known as

DELETE → delete resource

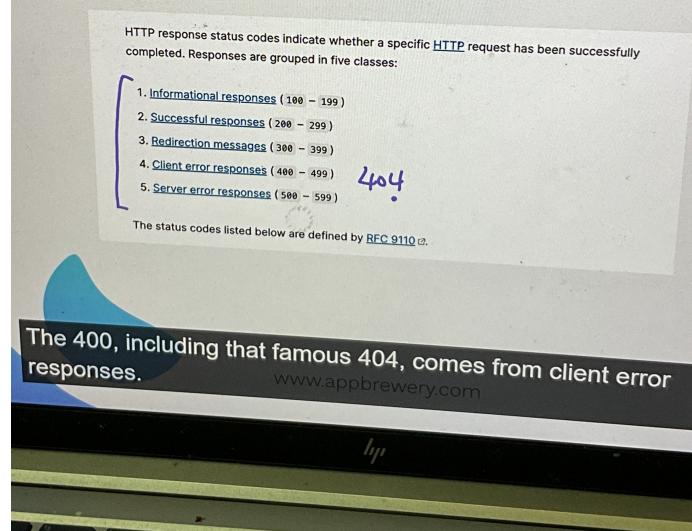
app.get("/", (req, res) => {
 res.send("Hello");
});

186f 7ec1 ccc
2311 - 17e7
Hello

node index.js 200 ok
node index.js 404 not found
node index.js 500 internal server error



HTTP Response Status Codes

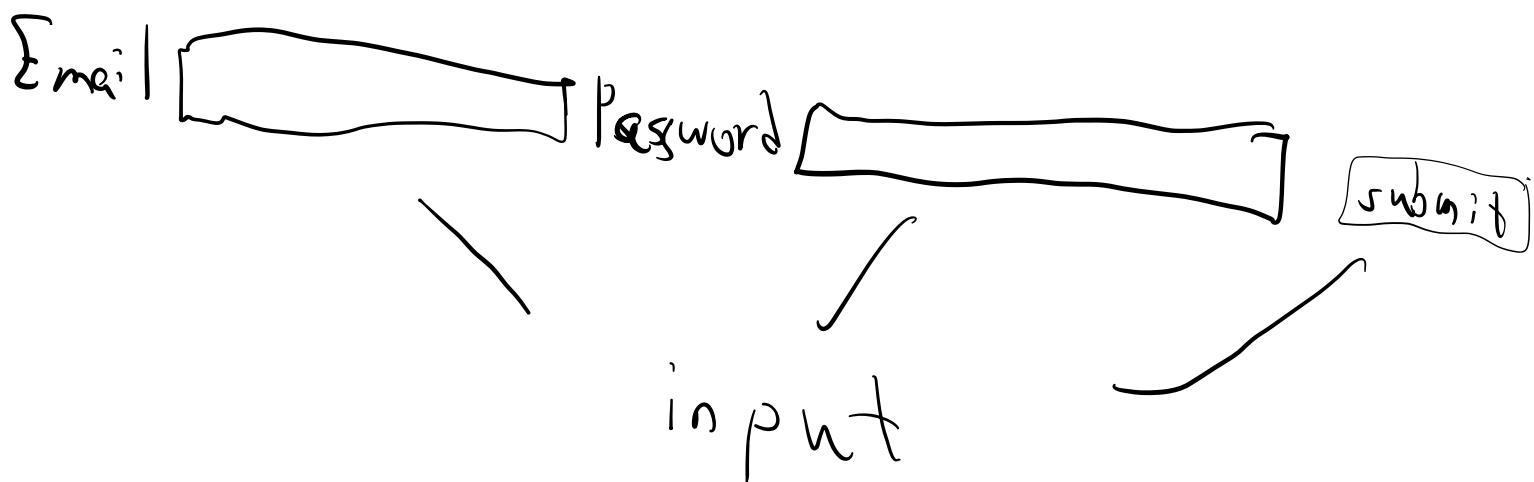


← → 100 OK
→ 401 Unauthorized
→ 403 Forbidden
→ 404 Not Found
→ 500 Internal Server Error
→ 503 Service Unavailable

QAPL API Postman tools Envir. JS API
req. sendStatus(200) API return value - JSON Javascript
form type - XML we Obj of JSON API - JSON

Middlewares

```
<form action = "/login" method = "POST">  
  <label for="email"> Email </label>  
  <input type = "text" name = "email" required>  
  <label for="password"> Password </label>  
  <input type = "text" name = "password" required>  
  <input type = "submit" value = "Submit" >  
</form>
```



reduces API usage HTML for sending data in JSON

```

import { dirname } from "path";
import { fileURLToPath } from "url";
const dirname = dirname(fileURLToPath(import.meta.url));
app.get('' , (req, res) => {
    res.sendFile(dirname + "/index.html");
});

```

morgan

install morgan

```

import morgan from "morgan";
app.use(morgan("combined"))

```

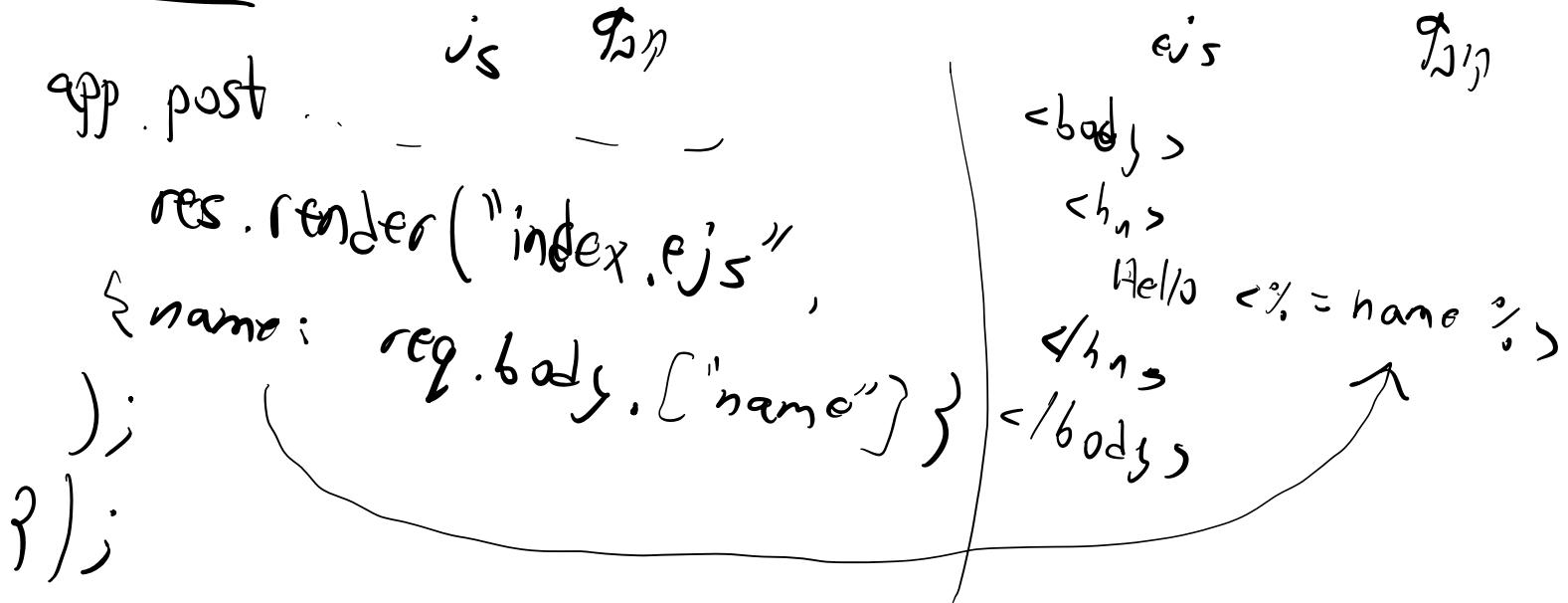
← order middlewares →

```

app.use((req, res, next) => {
    console.log("Request method: ", req.method);
    next();
});

```

EJS



Tags

`<% = var %>` → js output

`<% 21%>` → js code → (parsed by engine) → html output

`<% - html %>` → html string

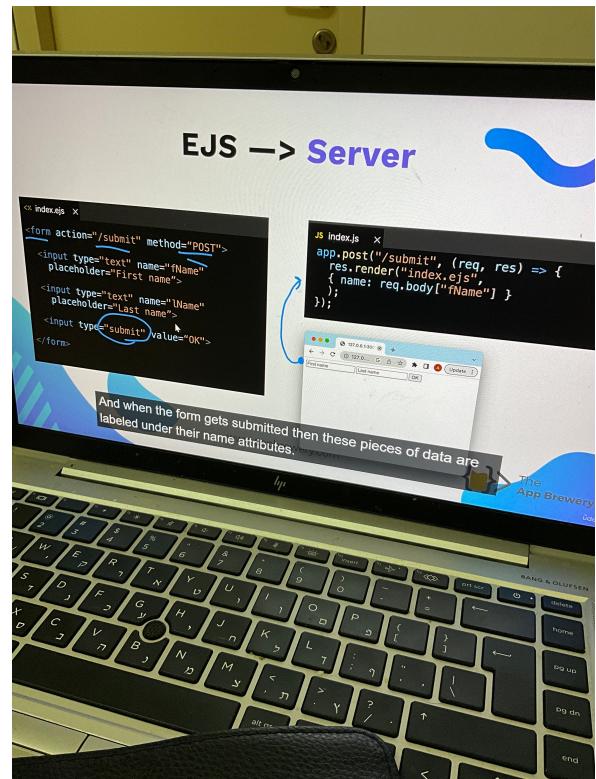
`<% %>` → show <% or %>

`<%# - 11%>` → (parsed) → // ignore

`<% - include("header.ejs") %>` → insert another EJS file

let traits = [...] for ejs if it is not true then
we can see that locals.traits will be true ejs file
will be used otherwise not as per the code

js & ejs are run together



: (css) → HTML and also program code

the public directory contains files like index.html, style.css, script.js, etc.
for static contents we can use app.use(express.static('public'))

app.use(express.static('public'));