Day 4: Creating a Simple Web Server with Node.js

What is a server?

A server is just a computer that waits for requests and responds to them. It's like a restaurant waiter: you ask for something, and it brings it to you.

What does http.createServer() do?

It creates a basic server that listens for requests and sends back responses.

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What is a port?

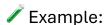
A port is like a door number for your app on your computer. You can have many apps running, and each

one listens on a different port.

What is a request and response?

- Request = What the user (browser) asks for
- Response = What the server sends back

What if I want to do calculations on the backend? Do the calculation in Node and return the result!



```
const server = http.createServer((req, res) => {
  if (req.url === '/sum') {
    const result = 40 + 2;
    res.end(`The sum is ${result}`);
  } else {
    res.end("Hello from the server");
  }
});
```

How does frontend talk to backend?

- Frontend makes an HTTP request (using fetch, axios, etc.) Backend sends a response with data
- Frontend updates the UI with it

It's like a waiter bringing food from the kitchen!

Task

- 1. Create a file called server.js
- 2. Create different routes (/, /about, /sum) 3. Do a calculation on /sum
- 4. Run and test in browser
- Stretch goal: Connect frontend fetch() with your backend and show data in the UI You've officially made your own server today not bad for Day 4!