NETHORK PROTOCOL

msgs sent over wire or network = msgs sent over the internet from imachine to another machine types of mags -> struc. Network protocol and of order I response to a mag, what shud it look like if present > rules an when mags can be sent to sanother 3 main protocols: 1) IP -> Internet Protocol 1) Modern internet effectively runs on IR without 1 machine interacts with another and (client) sends data to it the data is sent in form of IP nacket (funda unit blag blacks of data sent blay machines is community) i) IP packet - made up of lytes Ir header header data aka rayload? iii) I P header - At beginning of packet. Contains imp ungo - source it andress, destinan IP address

(machine sendin data) (machine data will gota)

const http Response = { status Code = 200 nea ders: of heap: Notice and are 'access-control-allow-origin: https://www.grg. -404 latus } body: '{} Path contains logic gets as per path recorded in req Headers -> collein of k-v pains containin imp moto data or info abt req. eg: 403 status code - data you're req. in is status code -> describes type of serious status

codes one like quidelines

that you an aller as per eg: - 404 status code = requested piece of data not found

```
(Clements-MBP:network_protocols clementmihailescu$ curl —header 'content-type: application/j
                                                                                                   Headers: { host: 'localhost:3000', 'user-agent': 'curl/7.54.0', accept: '*/*' }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Clements-MBP:network_protocols clementmihailescu$ curl localhost:3000/hello
"/Documents/Content/Design_Fundamentals/Examples/network_protocols — node server.js
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "/Documents/Content/Design_Fundamentals/Examples/network_protocols — -bash
                                  Clements-MBP:network_protocols clementmihailescu$ node server.js
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Clements-MBP:network_protocols clementmihailescu$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              on' localhost:3000/hello --data '{"foo": "bar"}'
                                                                                                                                                                                                                                                                                                                   'content-type': 'application/json',
                                                                                                                                                                                                                                                 user-agent': 'curl/7.54.0',
                                                                                                                                                                                                            host: 'localhost:3000',
                                                                                                                                                                                                                                                                                                                                                          'content-length': '14'
                                                                    Listening on port 3000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Received POST request!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Received GET request!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Body: { foo: 'bar' }
                                                                                                                                                                                                                                                                                      accept: '*/*',
                                                                                                                                                                                                                                                                                                                                                                                                                               Method: POST
                                                                                                                                        Method: GET
                                                                                                                                                                          Headers:
                                                                                                                             * *
                                                                                                                                                                                                                                                                                                                                                                   app.listen(3000, () => console.log('Listening on port 3000.'));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         console.log('Headers:', req.headers);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            console.log('Headers:', req.headers);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        res.send('Received POST request!\n');
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      res.send('Received GET request!\n');
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      console.log('Method:', req.method);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          console.log('Method:', req.method);
                                                                                                                               const express = require('express');
              JS http_request_example.js
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               app.post('/hello', (req, res) => {
                                                                                                                                                                                                                                                                                                                                                                                                                                                              app.get('/hello', (req, res) => {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       console.log('Body:', req.body);
                                                                                                                                                                                                                                                                              app.use(express.json());
                                                                                                                                                                                const app = express();
```

14 15

■ network_protocols — node server, is — 93×24

server is — network protocols

×

JS server.js

JS server.js > ...