



Day 9 - Middlewares, Global Catches, Authentication & Zod

1. Count the number of requests.
2. Calculate average time server is trying handle requests.

```
2 const express = require("express");
3
4 const app = express();
5 // rate limiting
6 function ratelimiter() {
7
8 }
9
10 app.get("/health-checkup", ratelimiter, function (req, res) {
11   const username = req.headers.username;
12   const password = req.headers.password;
13
14   if ((username === "harkirat" && password === "pass"))
15     if (username !== "harkirat" || password !== "pass") {
16       res.status(400).json({msg: "Somethings up with your inputs"})
17     }
18 }
19 });
20
21 app.listen(3000);
```

Cannot GET /

Run 845ms on 19:25:05, 12/16 ✓

Run 2m on 19:25:17, 12/16 ⚠

Run 7m on 19:27:25, 12/16 ⚠

Run 11m on 19:35:06, 12/16 ⚠

hi from req1

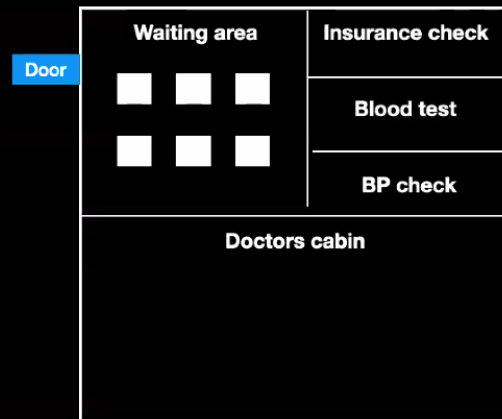
Other use cases of middleware (assignment) =

1. Count the number of requests
2. Find the average time your server is taking to handle requests

Hospital (covid)

Before you reach the doctor

1. Your adhar/insurance info is taken. Only if you have insurance you proceed
2. Blood test is done, only if no STD does use proceed
3. BP is checked, only if BP is reasonable user proceeds



Global catches help you give the user a Better error message

Error-Handling Middleware: This is a special type of middleware function in Express that has four arguments instead of three ('**err**', **req**, **res**, **next**'). Express recognizes it as an error-handling middleware because of these four arguments.

```
JS index.js > app.post("/health-checkup") callback
1 const express = require("express");
2
3 const app = express();
4
5 app.post("/health-checkup", function (req, res) {
6   // do something with kidney here
7   const kidneys = req.body.kidneys;
8   const kidneyLength = kidneys.length;
9
10  res.send("Your kidney length is " + kidneyLength);
11 });
12
13 app.use((error, req, res, next) => {
14   // console.error(error); // Log the error for debugging
15   res.status(500).send('An internal server error occurred');
16 });
17
18 app.listen(3000);
```

3. Zod - Schema Validation

It is an independent library that is used to validate a schema.