

External Middleware in Express.js with Example

Node JS Tutorial in Hindi #34 External Middleware in Express.js with Exa...



What is External Middleware in Express.js?

External middleware is **not built into Express.js**.

You must **install** it separately via npm.

It adds **extra functionality** (like logging, CORS, authentication, etc.)

Example: morgan Middleware

morgan is an external middleware used for **logging HTTP requests** in the terminal.

Helpful for **debugging** and **monitoring** incoming requests.

Steps to Use Morgan Middleware

1. Install morgan

```
npm i morgan
```

Import it

```
import morgan from "morgan";
```

Use it in your Express app

```
app.use(morgan("dev"));
```

"dev" is a predefined format that logs method, URL, status code, response time, etc.

Example Output in Terminal

```
GET / 200 2.012 ms - 9  
GET /login 200 1.223 ms - 12  
GET /random 404 3.314 ms - 142
```

To Verify Time Logging

Add a route with a **delay**:

```
app.get("/wait", (req, resp) => {  
  setTimeout(() => {  
    resp.send("result after 1 sec");  
  }, 1000);  
});
```

Now open:

<http://localhost:3200/wait>

Output in Terminal:

```
GET /wait 200 1011.997 ms - 18
```

Shows accurate request timing.

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