

Day 21 – Middleware & Templates

Theme:

Enhancing SkillSphere LMS with middleware for logging, parsing, and dynamic HTML views.

Challenge 1 (Easy): Logging Middleware

User Story:

As a developer, I want to log every incoming request to track user activity.

Problem Statement:

Implement a global middleware that logs HTTP method, URL, and timestamp.

Expected Outcome:

[GET] /courses at 2025-11-07T11:00:00Z

Challenge 2 (Average): Using Built-in Middleware

User Story:

As a developer, I want to parse JSON request bodies automatically for POST requests.

Problem Statement:

Use Express built-in middleware `express.json()` and `express.urlencoded()` to parse POST data for `/users`.

Expected Outcome:

POST /users → {"message": "User created successfully", "data": {...}}

Challenge 3 (Difficult): Dynamic Templates

User Story:

As a user, I want to view available courses rendered in a web page using templates.

Problem Statement:

Set up EJS as the view engine and render a `courses.ejs` file showing the course list dynamically.

Expected Outcome:

Renders HTML page listing all available courses.

Best Practices for Day 21

- Keep middleware lightweight and modular.

- Use external loggers (e.g., Morgan) for production logging.
 - Store template files in a views folder.
 - Avoid mixing logic and presentation in templates.
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