

Training Day-3 report

25 June, 2025

Today, I continued progressing through my summer training by initiating the development of a **Blog API** using **Node.js**, **Express**, and **MongoDB**. My objective was to create a basic blog system with dynamic rendering and database integration.

Work Undertaken:

- Started developing the Blog API backend architecture.
- Integrated **EJS (Embedded JavaScript Templates)** for dynamic page rendering and learned its basic usage.
- Explored and implemented **complex MongoDB aggregation pipelines**, enhancing my understanding of query optimization and data transformation.

Challenges Faced & Resolutions:

1. Application Crashes & Logic Errors:

- Faced frequent crashes due to minor typos and logical mistakes.
- Took the help of **AI tools** to interpret error logs and understand the root causes.
- This improved my ability to debug effectively and interpret errors clearly.

2. Learning Curve for Project Structure:

- Struggled with visualizing the overall flow and structure of the project.
- Utilized **YouTube tutorials** to understand best practices and real-world implementations.

Pending Tasks:

- Implement authentication-based control so that only **logged-in users** can **create and update** blog posts.
- Finalize user roles and permissions in the API.

Conclusion:

Today was a productive day with substantial learning around templating, database operations, and debugging. Although I faced some hurdles, the process helped strengthen my understanding. I aim to complete the remaining features by tomorrow.