

Day 17 – Daily Diary (Training TR-102)

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Training Location: STEP GNDEC, Ludhiana

Topic Covered: MediKart Project – Project Setup & Backend Initialization

◆ What I Learned Today:

On Day 17, we began working on our **MediKart project**, an online pharmacy platform. I focused on **backend setup** using Node.js, Express, and MongoDB. I learned how to organize backend folders (controllers, models, routes, middlewares, uploads) and manage environment variables using .env.

We discussed project requirements and database structure, including **users, products, orders, and sellers**. I learned to design schemas using **Mongoose** and create API endpoints for basic CRUD operations.

◆ Activities Performed:

1. Created the backend folder structure and initialized **Node.js project**.
2. Installed dependencies: Express, Mongoose, bcrypt, JWT, and dotenv.
3. Designed database schemas for **User, Seller, Product, and Order**.
4. Created API routes for user registration, login, and fetching products.
5. Implemented controllers for handling API logic and connecting with MongoDB.
6. Set up middleware for authentication and error handling.
7. Tested backend APIs using **Postman** to ensure correct functionality.

◆ Skills Gained:

- Organizing a backend project structure.
- Designing MongoDB schemas and relationships.
- Creating RESTful API routes and controllers.
- Using middleware for authentication and error handling.
- Testing APIs with Postman for debugging and validation.

Reflection:

Today's session gave me a strong foundation in **backend development**. I understood how APIs, database schemas, and controllers interact to provide data to the frontend. Setting up the backend correctly is essential for a smooth full-stack application.