

Week 4 Worklog (29.01.2025 - 01.02.2025)

Task: Backend Architecture and Database Design

1. Database Schema Finalization

- **Assigned to: Santhosh K (7376212IT221)**
- **Tasks Completed:**
 - Designed the **MongoDB schema** using Mongoose.
 - Created **collections and relationships** between documents.
 - Defined **schema validation** and indexing for optimization.
 - Created **MongoDB Atlas setup** for cloud storage.
 - Wrote initial **Mongoose models** for CRUD operations.

2. Backend Architecture Planning

- **Assigned to: Jayasuriya J (7376212IT160)**
- **Tasks Completed:**
 - Designed **Node.js + Express.js backend architecture**.
 - Planned **RESTful API structure** (routes, controllers, middlewares).
 - Decided on **JWT authentication and role-based access control (RBAC)**.
 - Defined API endpoints and **Swagger API documentation**.
 - Planned **microservices or monolithic backend approach**.

3. Backend Framework Setup & Initial Commit

- **Assigned to: Rakesh M (7376212IT208)**
- **Tasks Completed:**
 - Set up **Node.js + Express.js project structure**.
 - Installed **required dependencies** (Express, Mongoose, JWT, CORS, dotenv).
 - Configured **.env files** for database credentials & secrets.
 - Created basic API routes for **user authentication & consumables management**.
 - **GitHub setup & initial commit** with backend folder structure.

4. Documentation and Review

- Assigned to: Praveen R (7376212IT201)
- Tasks Completed:
 - Documented **database schema & API structure**.
 - Reviewed backend architecture for best practices.
 - Created **Postman collection** for API testing.
 - Wrote **README.md** with setup instructions.

Data base Schema:

