**Technical Documentation: Order Management System**

**1. Introduction:** The Order Management System is a backend application developed using the Go programming language (Golang) and the Fiber web framework. It provides functionalities for managing orders, products, users, and authentication.

**2. Database Schema:** The database schema consists of the following tables:

* **Users, customers**: Stores user information, including user ID, name, and role, hashed password, email.
* **tokens**: Stores login information, including login ID, user ID, and token.
* **products**: Stores product information, including product ID, name, description, price, and quantity available.
* **orders**: Stores order information, including order ID, customer ID, product ID, quantity ordered, and order date.

**4. Long-Term Design (LLD) Concepts:**

* **Models**: GORM models are used to represent database tables and define their relationships.
* **Middleware**: Middleware functions are used for implementing cross-cutting concerns such as authentication and authorization.
* **API Handlers**: Handlers are responsible for handling HTTP requests and orchestrating business logic.
* **Error Handling**: Errors are handled gracefully, and appropriate HTTP status codes are returned to the client.

**5. Tools and Packages Used:**

* **Go**: Programming language for backend development.
* **Fiber**: Web framework for building HTTP APIs.
* **GORM**: Object-Relational Mapping (ORM) library for database interactions.
* **bcrypt**: Package for password hashing and encryption.
* **UUID**: Package for generating unique identifiers.
* **MySQL Driver**: Driver for connecting to MySQL databases.

**6. Conclusion:** The Order Management System is a robust backend application built using Golang and Fiber, providing essential functionalities for managing orders, products, and users. With its clean folder structure, efficient database schema, and utilization of industry-standard tools and packages, it offers a scalable solution for businesses in need of order management capabilities.

API RESPONSES:

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