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1. Process Model

1.1 Requirement Specification

1.1.1 Functional Requirements

- **User Authentication:** Implement secure user login and registration using Firebase Auth.
- **Product Management:** Allow users to browse, add, or remove items from their cart, and enable providers to manage their product listings.
- **Payment Integration:** Provide secure payment options with support for multiple payment methods.
- **Wishlist**: Enable users to save items for future purchases.
- **Order History:** Allow users to view their past orders and reorder from previous purchases.

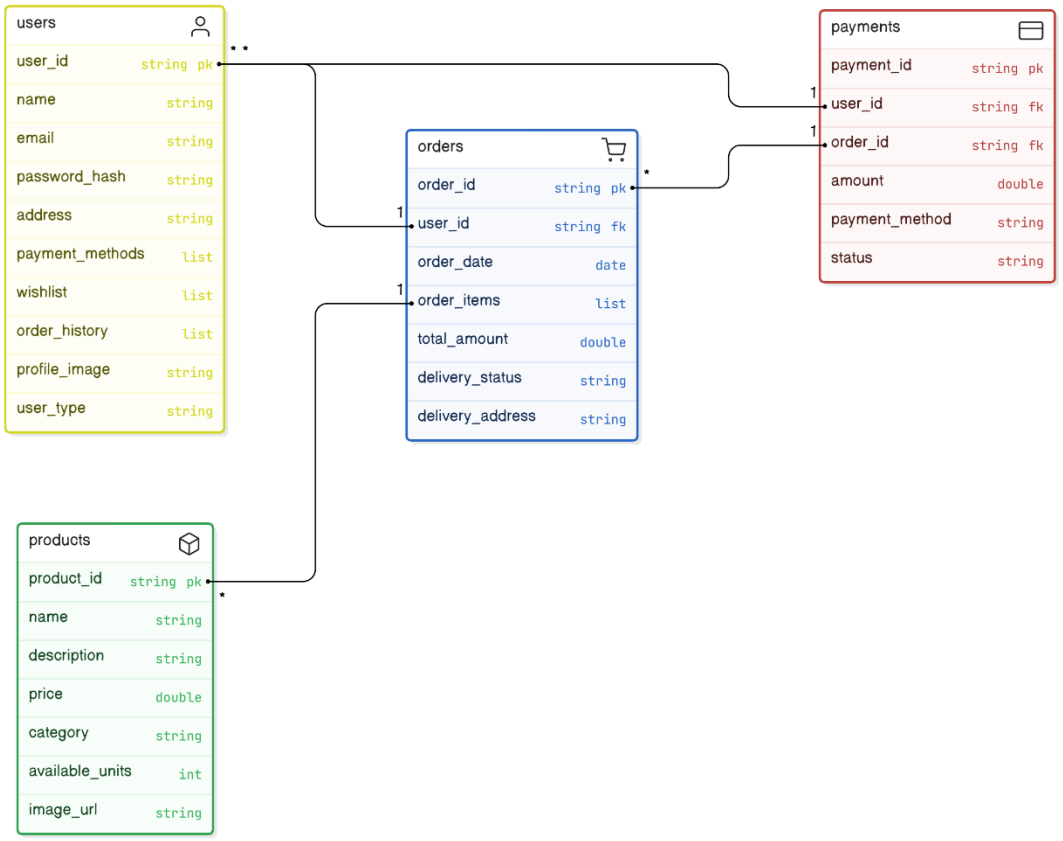
1.1.2 Non-Functional Requirements

- **Scalability:** Design the app to scale easily as user demand increases.
- **Usability:** The app should be intuitive and user-friendly, with minimal learning curve for users.

2. Database Design Schema

NoSQL ERD (Entity-Relationship Diagram)

The BiteBuddy app will utilize a NoSQL database (e.g., Firebase Firestore) that is flexible and scalable. The schema will include the following entities:



3. Project Phases

Phase 1: Setup and Initial Development (Week 1)

- Set up the development environment.
- Integrate Firebase for authentication and Firestore for database management.
- Develop the basic structure of the app, including user authentication and initial UI components.

Phase 2: Core Features Development (Week 2)

- Implement core functionalities such as product management, search, and cart management.
- Search functionality with filters.

Phase 3: Advanced Features (Week 3)

- Develop and integrate advanced features like payment methods, wishlist, and order history.
- Implement user profile management and settings.

Phase 4: Finalization and Testing (Week 4)

- Perform comprehensive testing, including functional, performance, and security testing.
- Fix any identified bugs and optimize the app for deployment.

4. Conclusion

The BiteBuddy app is designed to provide a seamless and user-friendly experience for both customers and food providers. By following a structured process model with clearly defined requirements, database design, and development phases, the project ensures that the app will meet its objectives efficiently and effectively. The Waterfall approach ensures a predictable outcome, delivering a reliable, secure, and scalable solution ready for deployment and user adoption.