

Project Proposal

Title of the project:

Online Sushi Shop Management

Names of members of the team:

Group 2: Siyi Chen, ChihYin Chen, Yeming Hu

Project description:

Our team will be developing an Online Sushi Shop Management System that aims to streamline the operations of a sushi restaurant by providing a user-friendly interface for customers to place online orders, make payments, reserve tables, and for admins to manage orders, menus, and customer information.

Our technologies:

- React
- Next.js
- HTML/CSS/JavaScript
- Node.js
- Firebase Database
- MongoDB Database

Functional requirements:

User Registration:

Users should be able to register an account with their personal information.

Proper validation should be implemented for registration inputs, such as ensuring unique email addresses and password strength requirements.

User Login:

Registered users should be able to log in to their accounts using their email and password.

Authentication should be implemented to verify user's information.

Menu Display:

The website should display a list of sushi items available for order.

Items should be categorized based on their types, such as rolls, nigiri, etc.

Each item should display its name, description, price and image.

Cart Management:

Customers should be able to add items to their shopping cart.

Customers should be able to view their cart contents, including the selected items and their quantities.

Customers should be able to remove items from the cart.

Order Placement:

Customers should be able to place an order for the items in their cart.

Customers should receive confirmation of their order placement.

Customers should be able to view their order history.

Search functionality:

Customers should be able to search specific sushi items or keywords within the website.

Admin manage customers:

The admin should be able to view and manage customer accounts, including creating, editing, and deleting accounts.

Item Management:

The admin should be able to add, edit, or remove sushi items from the menu.

Admin privileges may include the ability to manage item details such as name, description, price, category.

Order Management:

The admin should have access to a comprehensive view of all orders placed on the website.

Admin privileges may include the ability to view order details, update order statuses, and generate order reports.

Category Management:

The admin should be able to manage the categories of sushi items on the website.

Admin privileges may include the ability to create, edit, or delete categories.

Non-Functional requirements:

Performance:

The website should load quickly to provide a smooth user experience.

User-Friendly Interface:

The website should have an user-friendly interface that is easy to navigate.

User interactions, such as adding items to the cart and placing orders, should be straightforward and easy to understand.

Security:

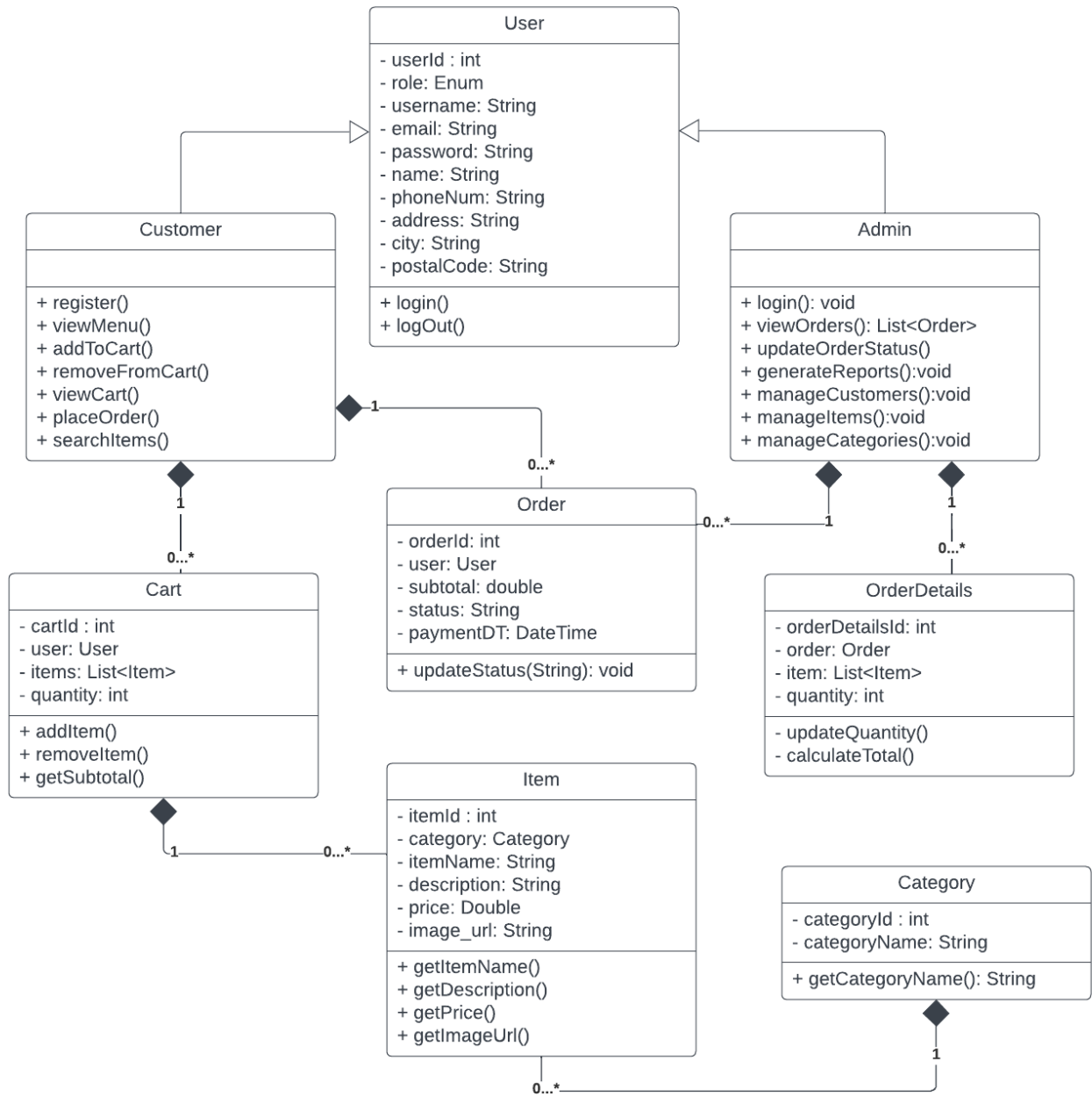
User passwords should be stored securely using appropriate encryption or hashing techniques.

Authentication and authorization should be implemented to protect user data.

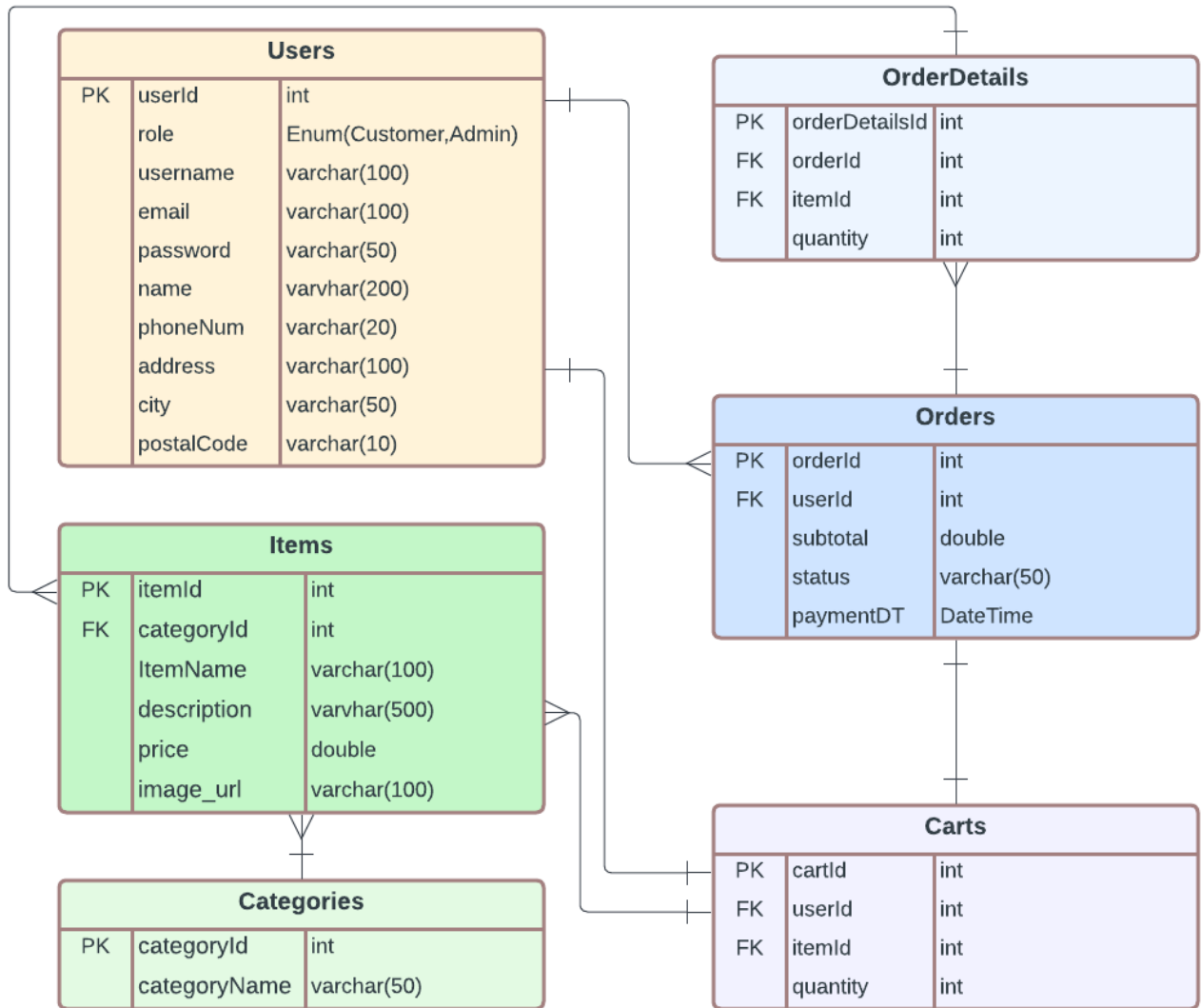
Use case diagram:



Class diagram:



Database diagram:



Links:

GitHub

https://github.com/SallyChen41/Fsd07_WebDevII_Group2

Trello

<https://trello.com/b/MyjFAEEo/fsd07webdev2>