Pizza Store Application Documentation

Overview

This pizza store application allows users to order pizzas and beverages from a single store. It provides functionality for both customers (users) and administrators. The application supports customization of pizzas, selection of sizes and crusts, and provides suggestions for beverages based on pizza choices.

User Functionalities

1. **User Registration and Login**

    o   Users can register by providing personal details and creating a login account.

    o   Registered users can log in to access their profile and order history.

2. **Browse Menu**

    o   Users can browse the menu of pizzas and beverages available in the store.

    o   Each pizza listing includes options for size, crust, and available toppings.

    o   Beverage options are also displayed.

3. **Pizza Customization**

    o   Users can select a pizza size (Small, Medium, Large).

    o   Users can choose a crust for their pizza. Different crusts are available based on the pizza and size.

    o   Users can customize their pizza with a variety of toppings (vegetarian or non-vegetarian).

4. **Add to Cart**

    o   Users can add selected pizzas and beverages to their cart.

    o   Users can specify the quantity for each item.

    o   Users can review their cart before proceeding to checkout.

5. **Checkout**

    o   Users can choose between pickup or delivery.

    o   For delivery, users must provide a delivery address.

    o   Users can view the total amount, including any additional charges.

6. **Place Order**

   o Users can place an order by confirming the details and proceeding to payment.

   o The order status will be updated to "Pending" initially.

7. **Order History**

   o Users can view their order history, including past orders and current order status.

8. **Payment**

   o Users can pay for their order using various payment methods (credit card, debit card, etc.).

   o Payment status will be updated once the payment is processed.

Admin Functionalities (implement all this functionalities only if the time permits)

1. **Admin Login**

   o Admins can log in to the system using their credentials.

2. **Manage Pizzas**

   o Admins can add new pizzas, including details such as name, description, image, price, and availability.

   o Admins can update existing pizzas and change their details.

3. **Manage Beverages**

   o Admins can add new beverages to the menu.

   o Admins can update beverage details, including price and availability.

4. **Manage Sizes and Crusts**

   o Admins can add new pizza sizes and crusts.

   o Admins can update or deactivate existing sizes and crusts.

5. **Manage Toppings**

   o Admins can add new toppings and categorize them as vegetarian or non-vegetarian.

   o Admins can update or deactivate existing toppings.

6. **Order Management**

   o Admins can view and manage all orders placed by users.

   o Admins can update order statuses (e.g., from "Pending" to "Completed").

Database Schema

1. **User**

    o UserId (Primary Key)

    o Username

    o Password

    o Email

    o PhoneNumber

    o Address

2. **Pizza**

    o PizzaId (Primary Key)

    o Name

    o Description

    o ImageUrl

    o Price

    o IsAvailable (Boolean)

3. **Size**

    o SizeId (Primary Key)

    o SizeName

    o Price

4. **Crust**

    o CrustId (Primary Key)

    o CrustName

    o Price

5. **Topping**

    o ToppingId (Primary Key)

    o ToppingName

    o IsVegetarian (Boolean)

6. **Beverage**

    o   BeverageId (Primary Key)

    o   Name

    o   Price

7. **PizzaCrust**

    o   PizzaCrustId (Primary Key)

    o   PizzaId (Foreign Key)

    o   CrustId (Foreign Key)

    o   SizeId (Foreign Key)

8. **PizzaTopping**

    o   PizzaToppingId (Primary Key)

    o   PizzaId (Foreign Key)

    o   ToppingId (Foreign Key)

9. **Order**

    o   OrderId (Primary Key)

    o   UserId (Foreign Key)

    o   OrderDate

    o   TotalAmount

    o   Status

    o   IsPickup (Boolean)

    o   DeliveryAddress (Nullable)

10. **OrderDetail**

    o   OrderDetailId (Primary Key)

    o   OrderId (Foreign Key)

    o   PizzaId (Foreign Key)

    o   SizeId (Foreign Key)

    o   CrustId (Foreign Key)

- o Quantity

- o SubTotal

11. **OrderTopping**

- o OrderToppingId (Primary Key)

- o OrderDetailId (Foreign Key)

- o ToppingId (Foreign Key)

12. **OrderBeverage**

- o OrderBeverageId (Primary Key)

- o OrderId (Foreign Key)

- o BeverageId (Foreign Key)

- o Quantity

- o SubTotal

13. **Cart**

- o CartId (Primary Key)

- o UserId (Foreign Key)

- o CreatedDate

14. **CartItem**

- o CartItemId (Primary Key)

- o CartId (Foreign Key)

- o PizzaId (Foreign Key, Nullable)

- o BeverageId (Foreign Key, Nullable)

- o SizeId (Foreign Key, Nullable)

- o CrustId (Foreign Key, Nullable)

- o Quantity

- o Price

15. **Payment**

- o PaymentId (Primary Key)

- OrderId (Foreign Key)
- Amount
- PaymentMethod
- PaymentDate
- PaymentStatus