**README**

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**Classes and Features**

**1. FoodItem**

The FoodItem class represents individual food items available for ordering.

**Properties:**

* id: Unique identifier for the food item.
* name: Name of the food item.
* category: Category (e.g., "Appetizer", "Main Course").
* price: Price of the item.
* available: Availability status of the item.

**Methods:**

* **Getters and Setters**: Access and update item properties.
* **toString**: Outputs a formatted string with item details.

**2. Menu**

The Menu class manages a collection of FoodItem instances and provides functionalities for adding, removing, updating, filtering, and sorting items.

**Features:**

* **Add Item**: Add a new food item to the menu.
* **Update Item**: Update an existing item’s price and availability.
* **Remove Item**: Remove an item by its ID.
* **Display Menu**: Print the current menu, optionally filtered by specific criteria.
* **Filter and Sort**: Filter items by category or sort by price.

**3. Order**

The Order class represents an individual customer order and tracks the list of ordered items, order status, and total amount.

**Properties:**

* orderId: Unique identifier for each order.
* items: Map of FoodItem and its quantity.
* total: Total amount of the order.
* status: Order status (e.g., "Pending", "Delivered", "Cancelled").
* **Special Features**:
  + Process refunds.
  + Display order details.
  + Handle customer cancellations and refunds.

**4. OrderHistory**

The OrderHistory class manages a list of orders and provides options to view, cancel, and search orders.

**Features:**

* **Add Order**: Add an order to history.
* **Cancel Order**: Mark an order as cancelled.
* **Daily Sales Report**: Generate a report on sales for a specific date.
* **Search Orders**: Find orders by ID or status.

**5. Cart**

The Cart class handles items added by a customer for potential purchase and calculates the cart total.

**Features:**

* **Add Item**: Add an item to the cart with specified quantity.
* **Update Quantity**: Update quantity of an existing item.
* **Remove Item**: Remove an item from the cart.
* **Calculate Total**: Compute the total cost of items in the cart.
* **Display Cart**: Print the items and total cost in the cart.
* **Clear Cart**: Empty the cart.

**Usage**

1. **Adding Menu Items**: Use Menu.addItem() to add items to the menu.
2. **Updating Menu Items**: Use Menu.updateItem() to change item price or availability.
3. **Ordering**: Add items to a Cart, then convert to an Order.
4. **Viewing Orders**: Use OrderHistory.displayOrderHistory() to view all past orders.
5. **Generating Reports**: Use OrderHistory.generateDailySalesReport() to get sales data for a given day.