

Admin

- Manages the Menu and Inventory. They control what is available to sell and track stock.
- Can add/remove/update Food Items and Categories
- Manage orders and track the status of submitted orders.
- Manage discounts, creates, updates, and deactivates promotional codes.

Customer

- The people who interact with the system to place an order.
- Can search and filter available Food Items by category.
- Can submit orders, apply an optional discount code, and provide a ticket name.
- Their order status is tracked until it is ready for pickup.

Food Item

- Includes the item's name, price, stock count, and availability status.
- Linked to a Category for easy filtering

Order

- Records all sales activities, tracks the entire process from submission to completion.
- It tracks order details, links to tbl_OrderDetails that list quantities and prices for each Food item
- Tracks status, and logs the current state, and financial details.

Discount

- Manages codes, stores the promotional code, type, and value.
- It can be applied to an Order during the checkout process to adjust the total_amount.

Basic Workflow:

1. Operational Flow (Admin)

- The Admin uses PUT/POST methods to update prices, stock, and availability status on Food Items and Categories.
- The Admin uses GET requests to display the queue of new and in-progress orders, retrieving data from tbl_orders.
- The Admin changes the order's status using a PUT request.

2. Customer Flow

- The Customer browses the menu using GET requests that filter Food Items for active availability.
- The Customer submits a code to a POST endpoint, which the system validates against tbl_discounts before calculating the value.
- The Customer sends a single POST request with items and the ticket name to the /api/orders route.
- The Backend System performs a single, multi-step transaction: inserting the Order Header and all Order Details, and simultaneously decreasing the stock count in tbl_fooditems.
- The Customer is given an order ID and monitors the order status until the Staff/Admin updates the order to ready.

Staff/Admin	Food Item	Category
- staffID	- foodID	- categoryID
- username	- categoryID	- categoryName
- passwordHash	- name	- isActive
+ addFood()	- price	+ addCategory()
+ removeFood()	- stock	+ modifyCat()
+ manageOrders()	- isAvailable	
	+ updateStock()	
	+ toggleAvail()	

Order
- orderID
- ticketName
- orderDateTime
- paymentMethod
- discountID
- totalAmount
- status
+ submitOrder()
+ changeStatus()
+ getDetails()
+ getSalesData()

Order Details
- orderDetailID
- orderID
- foodID
- quantity
- priceAtOrder
+ updateQuantity()
+ removeLineItem()

Discount
- discountID
- code
- type
- value
- maxUses
+ addDiscount()
+ applyCode()
+ getUsage()