# **Online Food Delivery Application (Qwick Foodz)**

Create an online application for Food Delivery Platform.

The application will show the following main menu.

- 1. Customer Registration
- 2. Customer Login
- 3. Exit

### 1. Customer Registration:

- a. Collect all the details of user.
  - i. Name,
  - ii. FatherName,
  - iii. Gender- {Select, Male, Female, Transgender},
  - iv. Mobile,
  - v. DOB,
  - vi. MailID,
- b. Location and register him as a customer and show: "Customer registration successful Your Customer ID: CID1001."

### 2. Customer Login

- a. Get **CustomerID** from user and check whether his CustomerID exists. If not means show "Invalid user ID". If exists means Show following sub menu.
  - i. Show Profile
  - ii. Order Food
  - iii. Cancel Order
  - iv. Modify Order
  - v. Order History

- vi. Recharge Wallet
- vii. Show Wallet Balance
- viii. Exit

#### i. Show Profile:

Show the current logged in customer profile information in console.

#### ii. Order Food:

- a. Create **OrderDetails** object with **CustomerID**, **TotalPrice** = 0, **DateOfOrder** as today and **OrderStatus** = Initiated.
- b. Create **localitemList** for adding your wishlist.
- c. Show all the list of food items available in store for processing the order.
- d. Ask the **FoodID**, order quantity from user and check whether it is available. If not show **FoodID** Invalid or **FoodQuantity** unavailable based on the scenario.
- e. If it is available then, create **ItemDetails** object with created **OrderID**, **FoodID**, **Quantity** and **Price** of this order, deduct the available quantity and store the **ItemDetails** object in **localItemList**. Calculate total price of this order by summing it with current item's price.
- f. Ask the user whether he want to order more. If "Yes" means again show food details and repeat from step "c" to create new ItemDetails object. Repeat this process until he says "No".
- g. If user select "No" then show "Do you want to confirm purchase." If he says "No" return the localItemList of items count back to FoodDetails list.
- h. If he says "Yes".
- i. Check whether the customer wallet has sufficient balance.
- j. If he has balance then, modify **OrderDetails** object which was created at beginning with **TotalPrice** and **OrderStatus** to "**Ordered**". Deduct the total amount from user's wallet balance. Add the **localItemList** to **ItemList**.
- k. If the balance is insufficient, inform the customer that the wallet has insufficient balance and whether wish to recharge /not.
- I. If he says "No" return the localItemList item's count to FoodList.
- m. If "Yes" ask for the amount to be recharged. Show the balance after recharge and goto step "i" to proceed purchase again.

#### iii. Cancel Order:

- a. Show the list of orders placed by current logged in user whose status is "Ordered".
- b. Ask the user to pick an order to be cancelled by **OrderID**.
- c. If **OrderID** is present, then change the order status to **"Cancelled"**. Refund the total price amount of current order to user's **WalletBalance** then return the food items of the current order to **FoodList**.

### iv. Modify Order

- a. Show the orders placed by current logged in user whose order status is booked.
- b. Ask **OrderID** to modify orders
- c. Check **OrderID** is valid, and it is of current user's and its status is **Ordered**. Then fetch the item details of corresponding order and show it.
- d. Ask ItemID and check ItemID is valid. Then ask user to provide new item quantity.
- e. Based on new item quantity the item object needs to be updated its price.
- f. If item quantity increased, then item amount will be collected from current user if he has enough balance. If he has no balance, ask him to recharge with that amount and proceed. If the item quantity reduced, then balance amount should be returned to current user.
- g. Update the total amount of order and show "Order ID + (OID3001) + modified successfully".

### v. Order History

a. Show the order history of the current logged-in user.

# vi. Recharge Wallet:

a. Ask the user to enter the amount to be recharged. Deposit the recharge amount to current user's wallet.

#### vii. Show Wallet Balance

Display the customer's wallet balance in console.

#### viii. Exit

a. Exit from submenu and show main menu.

### **Personal Details Class:**

Properties: Name, FatherName, Gender- {Select, Male, Female, Transgender}, Mobile, DOB, MailID, Location

### Interface IBalance

Properties: WalletBalance

Method: WalletRecharge, DeductBalance

CustomerDetails class: Inherits Personal Details, IBalance

Field: \_balance

Properties: CustomerID, WalletBalance

**Methods**: WalletRecharge, DeductBalance

# **Values of CustomerDetails Object:**

CustomerID	WalletBalance	Name	FatherName	Gender	Mobile	DOB	MailID	Location
CID1001	10000	Ravi	Ettapparajan	Male	974774646	11/11/1999	ravi@gmail.com	Chennai
CID1002	15000	Baskaran	Sethurajan	Male	847575775	11/11/1999	baskaran@gmail.com	Chennai

### **FoodDetails Class:**

**Properties**: FoodID, FoodName, PricePerQuantity, QuantityAvailable

# **Values of FoodDetails Object**

FoodID	FoodName	PricePerQuantity	QuantityAvailable
FID2001	Chicken Briyani 1Kg	100	12
FID2002	Mutton Briyani 1Kg	150	10
FID2003	Veg Full Meals	80	30
FID2004	Noodles	100	40
FID2005	Dosa	40	40
FID2006	Idly (2 pieces)	20	50
FID2007	Pongal	40	20
FID2008	Vegetable Briyani	80	15
FID2009	Lemon Rice	50	30
FID2010	Veg Pulav	120	30
FID2011	Chicken 65 (200 Grams)	75	30

# **OrderDetails Class:**

 $\textbf{Properties} : OrderID, CustomerID, TotalPrice, DateOfOrder, OrderStatus - \{Default, Initiated, Ordered, Cancelled\}.$ 

### **Object Details of OrderDetails class:**

OrderID	CustomerID	TotalPrice	DateOfOrder	OrderStatus
OID3001	CID1001	580	26/11/2022	Ordered
OID3002	CID1002	870	26/11/2022	Ordered
OID3003	CID1001	820	26/11/2022	Cancelled

# **ItemDetails Class:**

**Properties**: ItemID – (ITID100), OrderID, FoodID, PurchaseCount, PriceOfOrder

# Default objects for ItemDetails class:

ItemID	OrderID	FoodID	PurchaseCount	PriceOfOrder
ITID4001	OID3001	FID2001	2	200
ITID4002	OID3001	FID2002	2	300
ITID4003	OID3001	FID2003	1	80
ITID4004	OID3002	FID2001	1	100
ITID4005	OID3002	FID2002	4	600
ITID4006	OID3002	FID2010	1	120
ITID4007	OID3002	FID2009	1	50
ITID4008	OID3003	FID2002	2	300
ITID4009	OID3003	FID2008	4	320
ITID4010	OID3003	FID2001	2	200