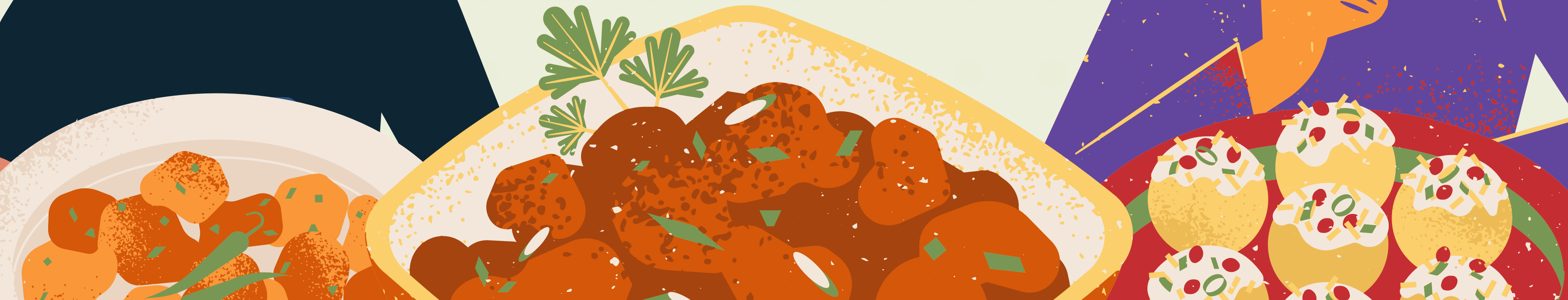MICRO PROJECT

RESTAURANT MANAGEMENT

GROUP MEMBER: OU VENHAV

PHON SOVATANAK
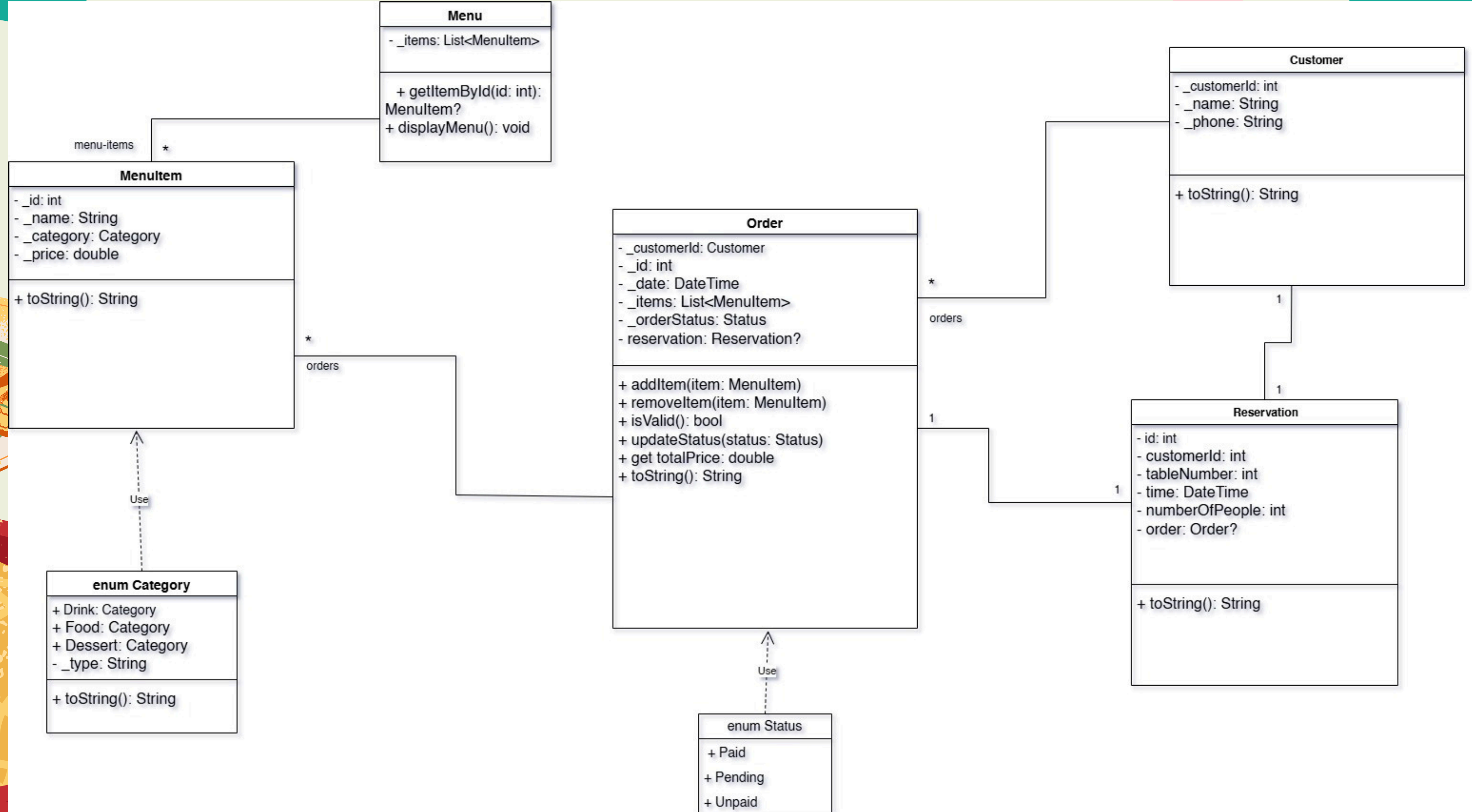
ABOUT

We created a simple Restaurant Management System That allows users:

- to record customer details
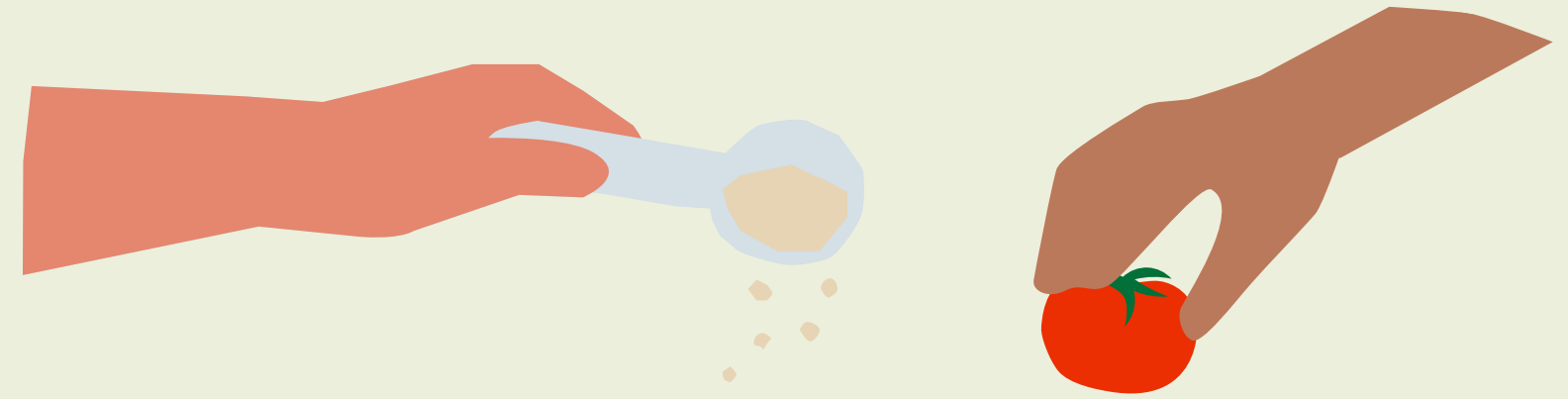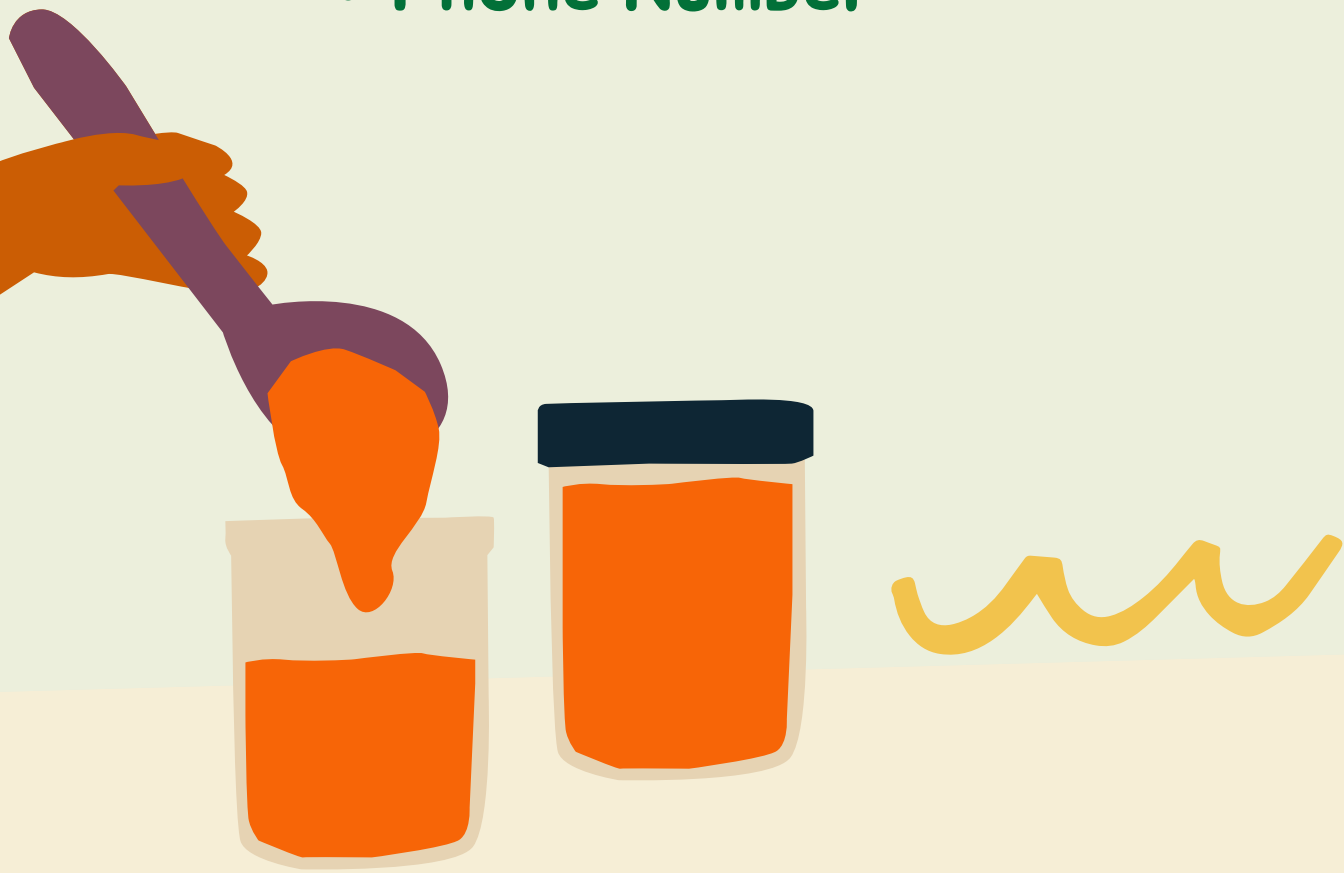- make reservations
- place orders.

UML

Menu
- _items: List<MenuItem>

+ getItemById(id: int): MenuItem?
+ displayMenu(): void

Customer
- _customerId: int
- _name: String
- _phone: String

+ toString(): String

menu-items *

MenuItem
- _id: int
- _name: String
- _category: Category
- _price: double

+ toString(): String

Order
- _customerId: Customer
- _id: int
- _date: DateTime
- _items: List<MenuItem>
- _orderStatus: Status
- reservation: Reservation?

+ addItem(item: MenuItem)
+ removeItem(item: MenuItem)
+ isValid(): bool
+ updateStatus(status: Status)
+ get totalPrice: double
+ toString(): String

* orders

1

1

1

*

1

orders

Use

enum Category
+ Drink: Category
+ Food: Category
+ Dessert: Category
- _type: String

+ toString(): String

Reservation
- id: int
- customerId: int
- tableNumber: int
- time: DateTime
- numberOfPeople: int
- order: Order?

+ toString(): String

Use

enum Status
+ Paid
+ Pending
+ Unpaid

Customer

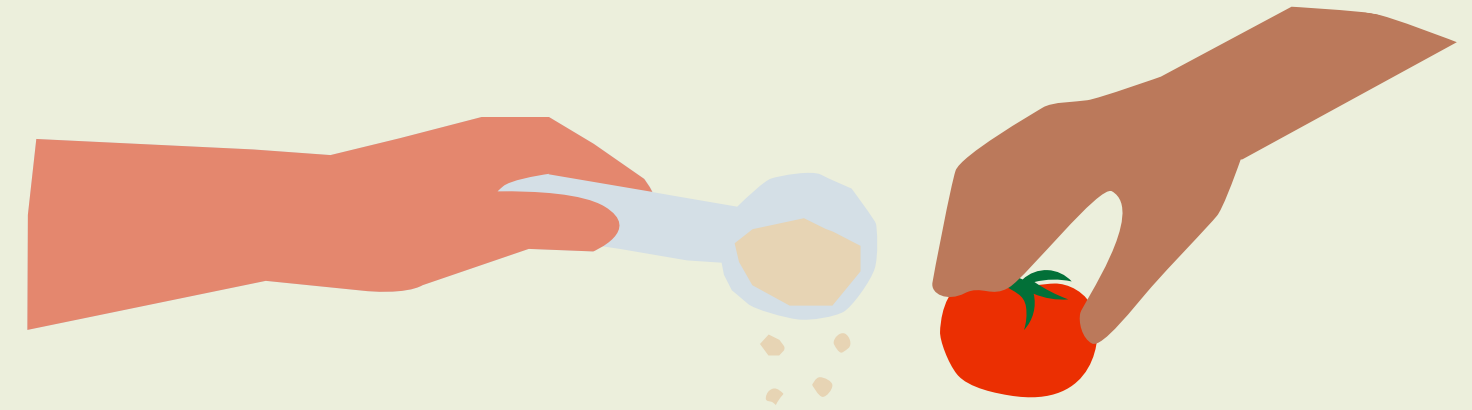**Customer Detail Include:**

- ID
- Name
- Phone Number

```
===== Customer Input =====
Enter customer ID:
123
Enter customer name:
OUVENHAV
Enter customer phone:
012249500
Customer added successfully.
```

Reservation

Reservation Detail Include:

- **Reservation ID**
- **Customer ID**
- **Table Number**
- **Amount of People**

```
===== Reservation Input =====
Enter reservation ID:
1
Enter customer ID:
1
Enter table number:
2
Enter number of people:
3
Reservation made successfully.
```

Order

Order input:
- **Reservation ID**
- **Items**
- **Payment**

```
Enter reservation ID:
1
Menu

Item ID: 1, Name: Burger, Category: Food, Price: $5.0

Item ID: 2, Name: Coca, Category: Drink, Price: $0.75

Item ID: 3, Name: Pizza, Category: Food, Price: $15.0

Item ID: 4, Name: Ice-Cream, Category: Dessert, Price: $1.0

Item ID: 5, Name: Fried Rice, Category: Food, Price: $2.0

Item ID: 6, Name: Noodle, Category: Food, Price: $2.0

Item ID: 7, Name: Cookie, Category: Dessert, Price: $0.25
Enter the ID of the item you want to order (or 'done' to finish):
1
Burger added to your order.
Enter the ID of the item you want to order (or 'done' to finish):
2
Coca added to your order.
Enter the ID of the item you want to order (or 'done' to finish):
done
Do you want to Pay?(yes/no):
yes

Order placed successfully.
```

Order (Cont.)

Order/Receipt Detail Include:

- **Customer Detail**
- **Reservation Detail**
- **Order Detail**

```
===== Customer =====
Customer ID: 1
Customer Name: 1
Contact: 1
===== Reservation =====
Rerservation ID: 1
Customer ID: 1
Table Number: 2
Time: 2024-10-31 22:40:40.709093
People: 3
===== Order =====
Order ID: 1
Customer ID: 1
Date: 2024-10-31 22:42:59.901421
===== Ordered Menu =====
Item ID: 1, Name: Burger, Category: Food, Price: $5.0
==================
Item ID: 2, Name: Coca, Category: Drink, Price: $0.75
===== Total =====
Price: $5.75
===== Status =====
Paid
```

THANK YOU