PROJECT TITLE: Online Food Ordering System

Abstract:

The project aims to design and develop an Online Food Ordering System to easily order food through the system. This System will provide a platform for restaurants and customers to interact flawlessly. The System developed using python and Django to ensure a user-friendly interface and secure transactions. Preliminary study demonstrates that the system can significantly streamline the food ordering process, decreasing order processing duration and limiting mistakes.

In the **first module,** registration and login are mechanisms used to verify the identity of a user to perform functionalities

In the **second module,** The Restaurants can enroll itself and the delivery person can fill out a form to register. The restaurant has the ability add their food items, view all their dishes, and assign a delivery person for a specific order.

In the **third module**, it offers various functionalities such as enabling customers to search their desired food items by name or category, and add them to their cart. customer can view their cart and track their orders.
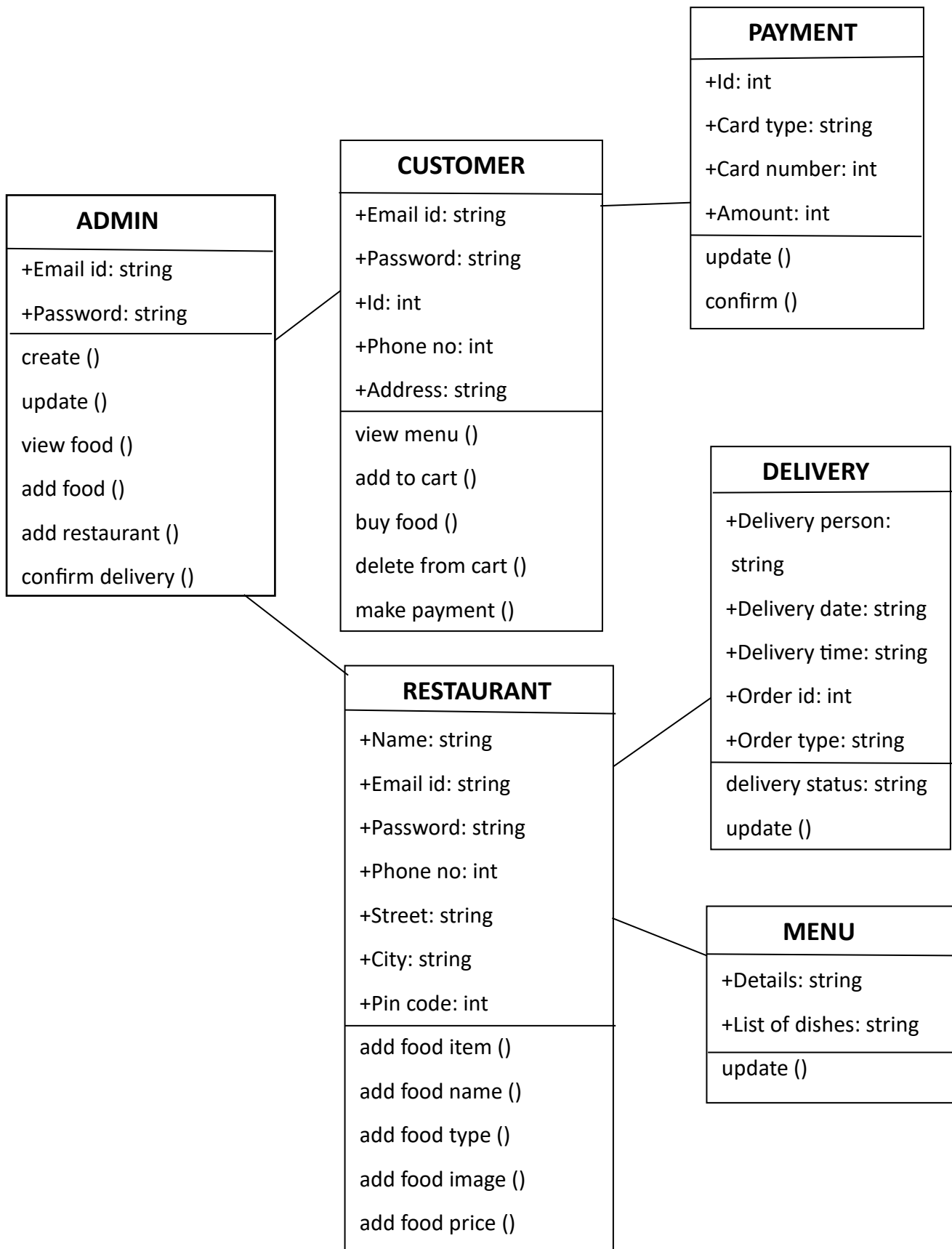
In the **fourth module**, the delivery person has the ability to see all the orders that are allocated to him by the system. Additionally, he has the capability to update the status of these orders as they progress through the delivery process.

The successful implementation of this project has the potential to revolutionize the food industry by making online food ordering more accessible, efficient and enjoyable to all parties involved
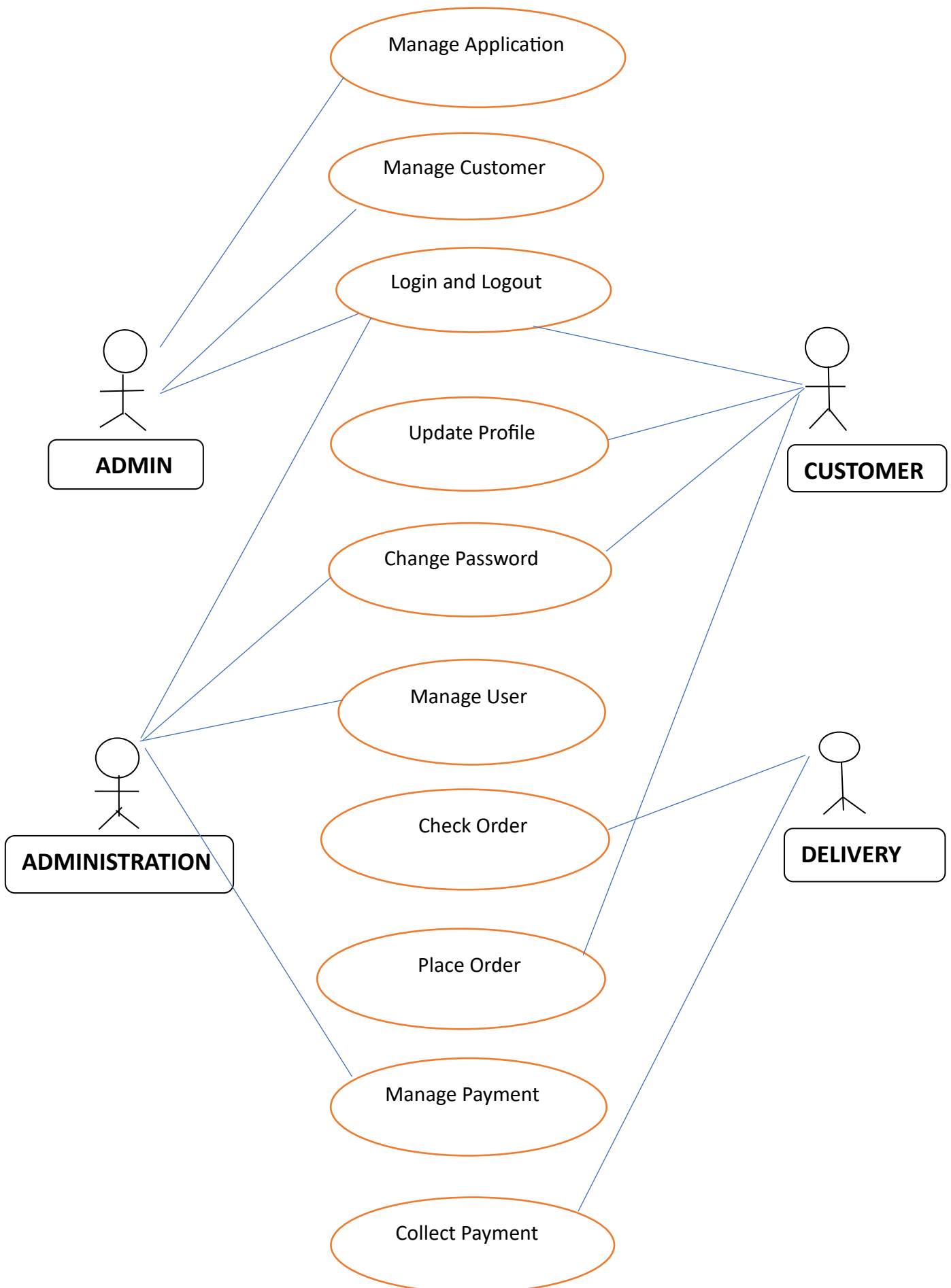
UML Diagrams:

1. Class Diagram
2. Use Case Diagram
3. Sequence Diagram
4. Dataflow Diagram

CLASS DIAGRAM:

PAYMENT

+Id: int

+Card type: string

+Card number: int

+Amount: int

---

update ()

confirm ()

CUSTOMER

+Email id: string

+Password: string

+Id: int

+Phone no: int

+Address: string

---

view menu ()

add to cart ()

buy food ()

delete from cart ()

make payment ()

ADMIN

+Email id: string

+Password: string

---

create ()

update ()

view food ()

add food ()

add restaurant ()

confirm delivery ()

DELIVERY

+Delivery person:
 string

+Delivery date: string

+Delivery time: string

+Order id: int

+Order type: string

---

delivery status: string

update ()

RESTAURANT

+Name: string

+Email id: string

+Password: string

+Phone no: int

+Street: string

+City: string

+Pin code: int

---

add food item ()

add food name ()

add food type ()

add food image ()

add food price ()

MENU

+Details: string

+List of dishes: string

---

update ()

USECASE DIAGRAM:

SEQUENCE DIAGRAM:

DATA FLOW DIAGRAM:

```
            ┌─────────────────────┐
            │  Customer Interface │
            └─────────────────────┘
                      │
                      ▼
            ┌─────────────────────┐
            │  Food Order management │
            │  and Processing     │
            └─────────────────────┘
            │         │         │
            ▼         ▼         ▼
┌──────────────┐ ┌──────────────┐ ┌──────────────────────┐
│ Restaurant   │ │ Payment Gate Way │ │ Delivery Management │
│ Management   │ │ Integration  │ │                      │
└──────────────┘ └──────────────┘ └──────────────────────┘
```
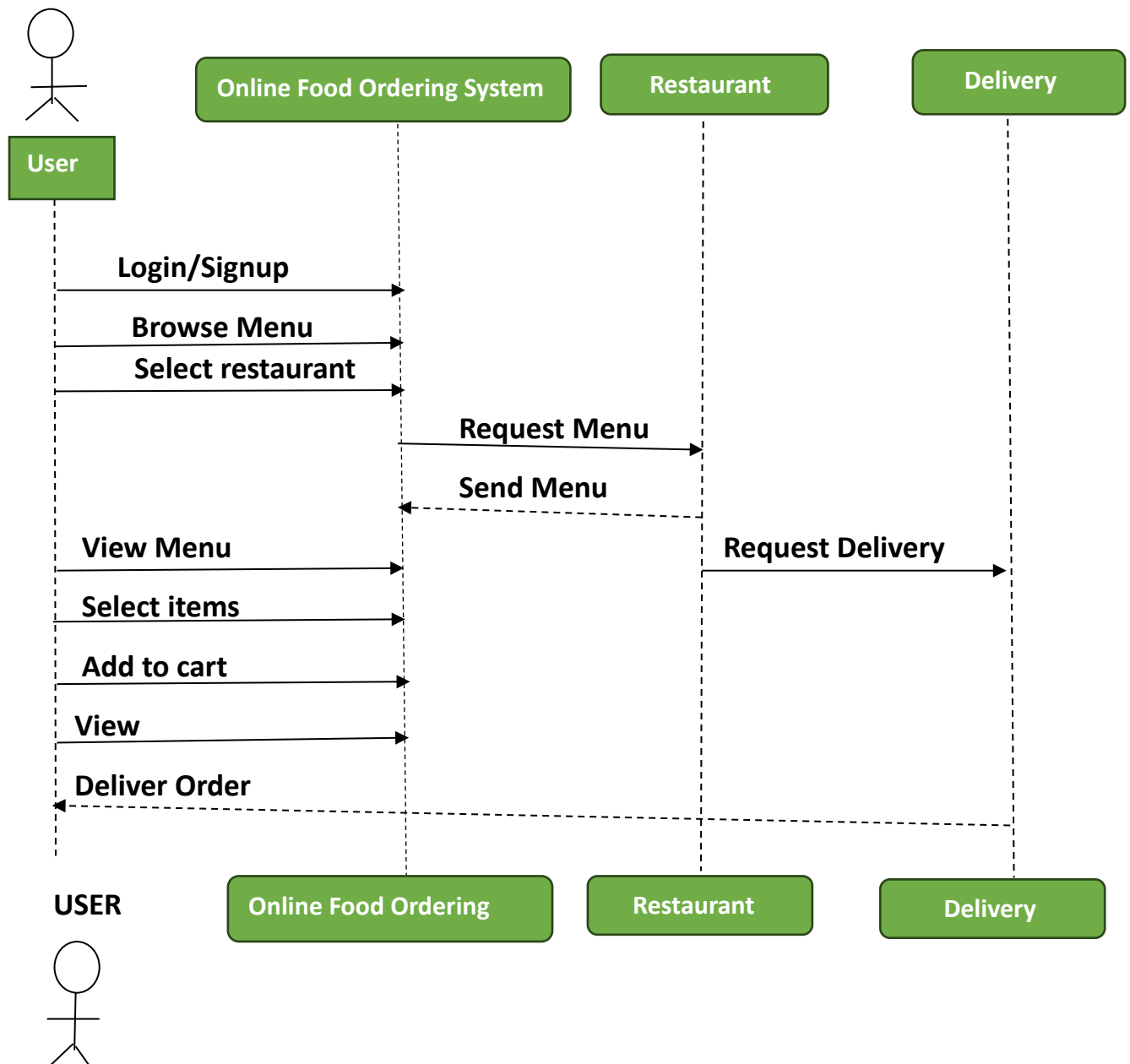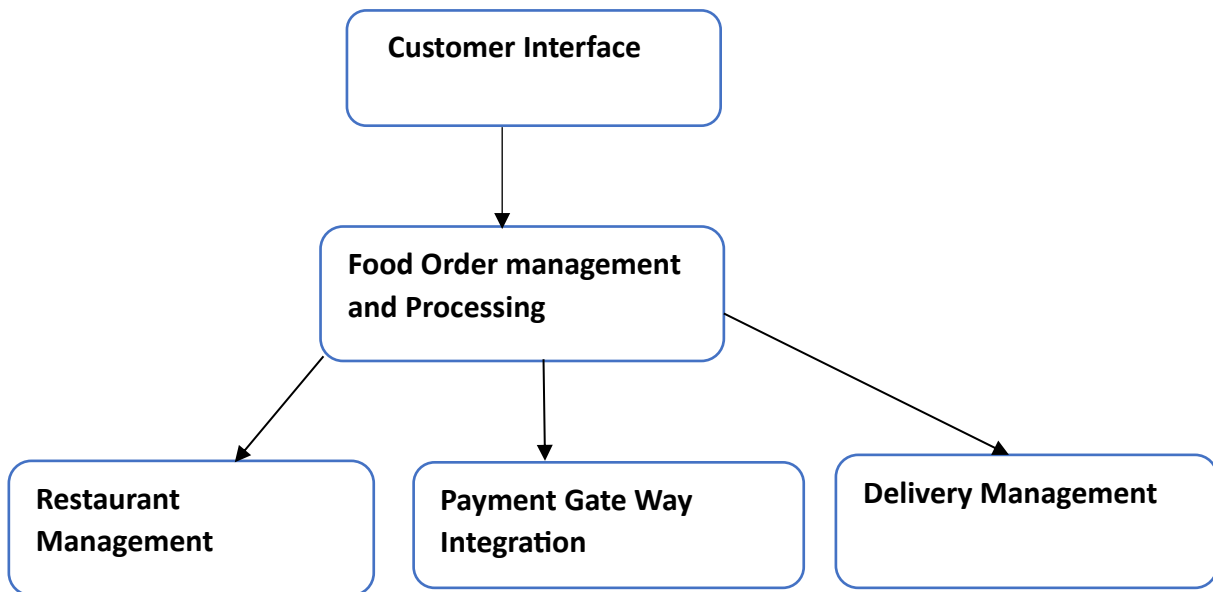
SOFTWARE REQUIREMENTS:

Operating System: A stable operating system like windows 10 is commonly used due to its stability and user-friendly features.

Database: My SQL: To manage and store data and retrieving the data.

HARDWARE REQUIREMENTS:

Processor: A standard processor with adequate speed (e.g.2 GHz or faster).

RAM: At least 2GB of smooth multitasking.

Hard Disk: A minimum of 50GB or more for sufficient storage space.