Software requirements specification (SRS) for an online food ordering system.

Naser Mahumd

ASH1811070M

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Introduction

Purpose of the System: To provide a convenient and user-friendly platform for customers to order food online from restaurants.

Scope: The system will include customer registration, menu display, food ordering, order management, payment processing, feedback, and ratings

Overview

Product Overview: Online Food Ordering System

Key Features:

- Customer Registration
- Menu Display
- Food Ordering
- Order Management
- Payment Processing

Functional Requirements

Customer Registration: Allow customers to create accounts and manage personal information securely.

- Menu Display: Show restaurant menus with food items and prices.
- Food Ordering: Enable customers to select items, customize orders, and add them to the cart.
- Order Management: Notify restaurants about new orders and track order status.
- Payment Processing: Securely process payments and provide payment option

Non-functional Requirements

- Performance: Ensure fast loading times and responsiveness during peak hours.
- Security: Implement robust security measures to protect user data and prevent unauthorized access
- Reliability: Minimize system downtime and ensure data integrity.
- Usability: Create an intuitive and user-friendly interface for a positive customer experience
- Maintainability: Design the system to be easily maintainable and scalable

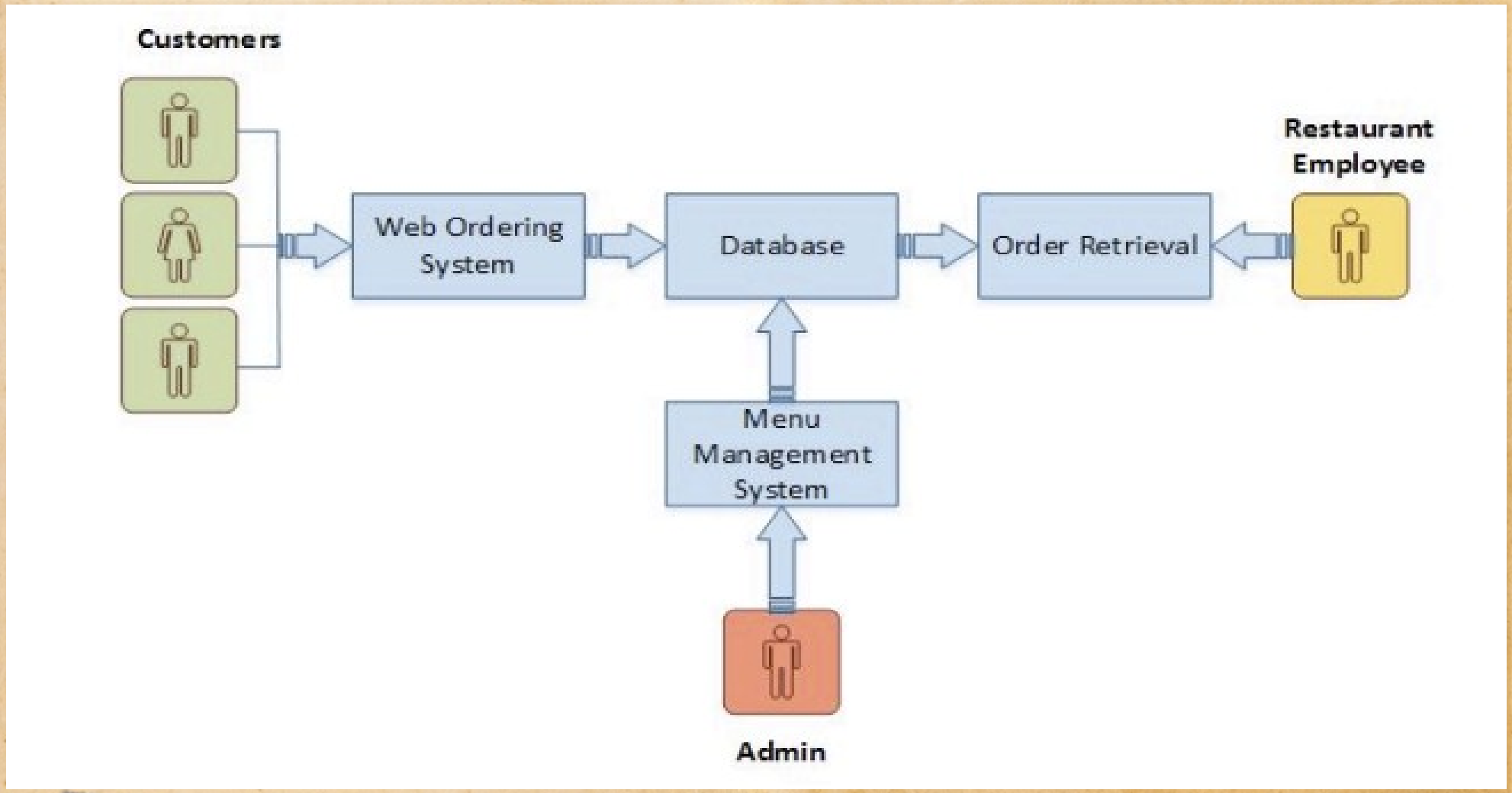
System Design

Architecture Diagram: Illustrate the high-level components, including client-side, server-side, and external services integration

Data flow diagram**:**Data Flow Diagram (DFD) provides a visual representation of the flow of information (i.e. data) within a system.

Sequence Diagrams: Demonstrate the flow of interactions for registration, food ordering, and payment processing.

System Model



System Model

The structure of the system can be divided into 3 main logical components:

Web Ordering System Module This module provides the functionality for customers to place their order and supply necessary details. Users of the system, namely restaurant customers, must be provided the following functionality:

- Create an account.
- Manage their account.
- Log in to the system.

Menu Management System Module: This module provides functionality for the power user-Administrator only. It will not be available to any other users of the system like Restaurant Employees or Customers. Using a graphical interface, it will allow an Admin to manage the menu that is displayed to users of the web ordering system:

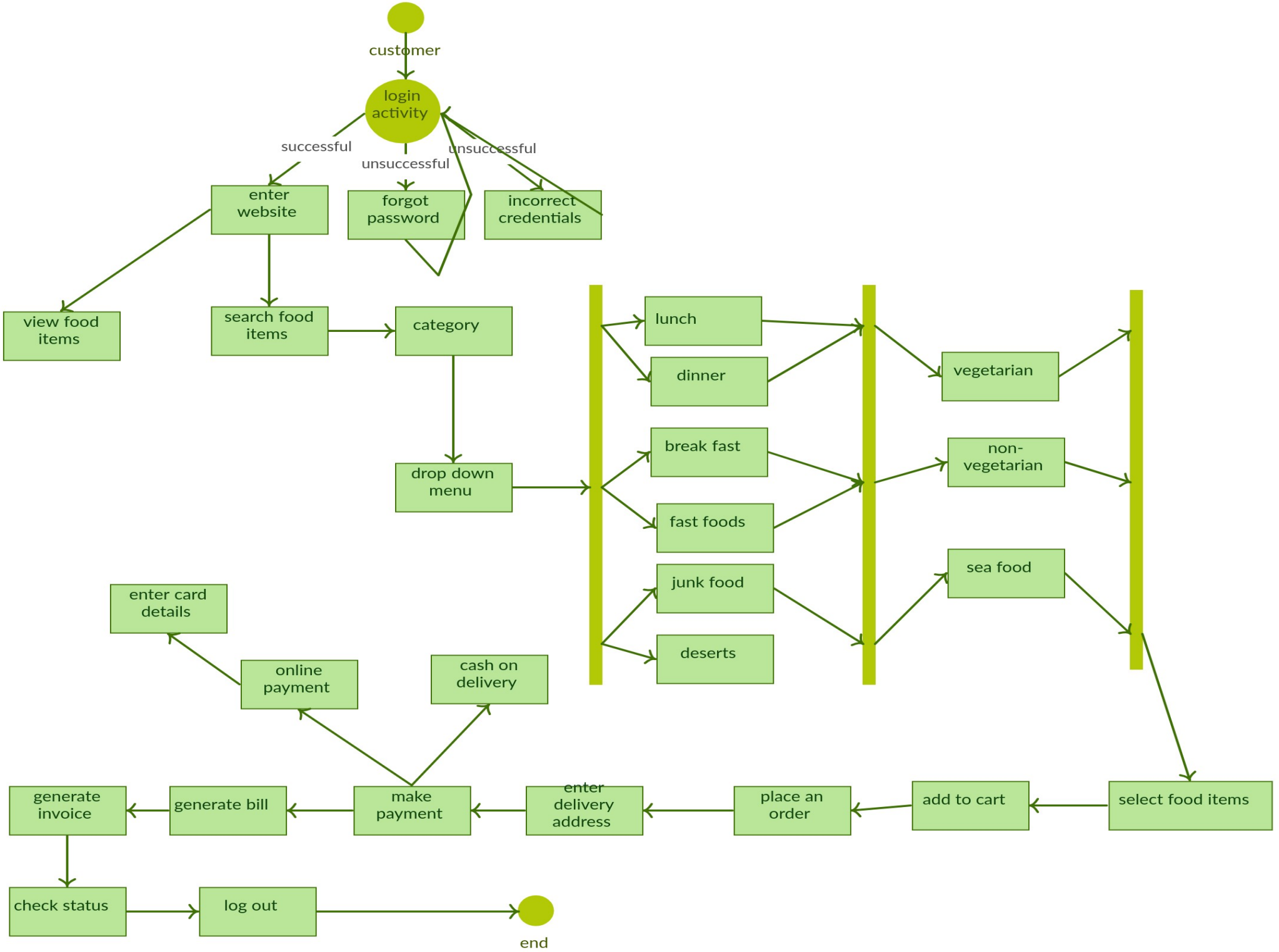
- Add/update/delete food category to/from the menu.
- Add /update/delete food item to/from the menu.
- Update price for a given food item.

Order Retrieval System Module This is the most simplest module out of all 3 modules. It is designed to be used only by restaurant employees, and provides the following functions:

- Retrieve new orders from the database.
- Display the orders in an easily readable, graphical way

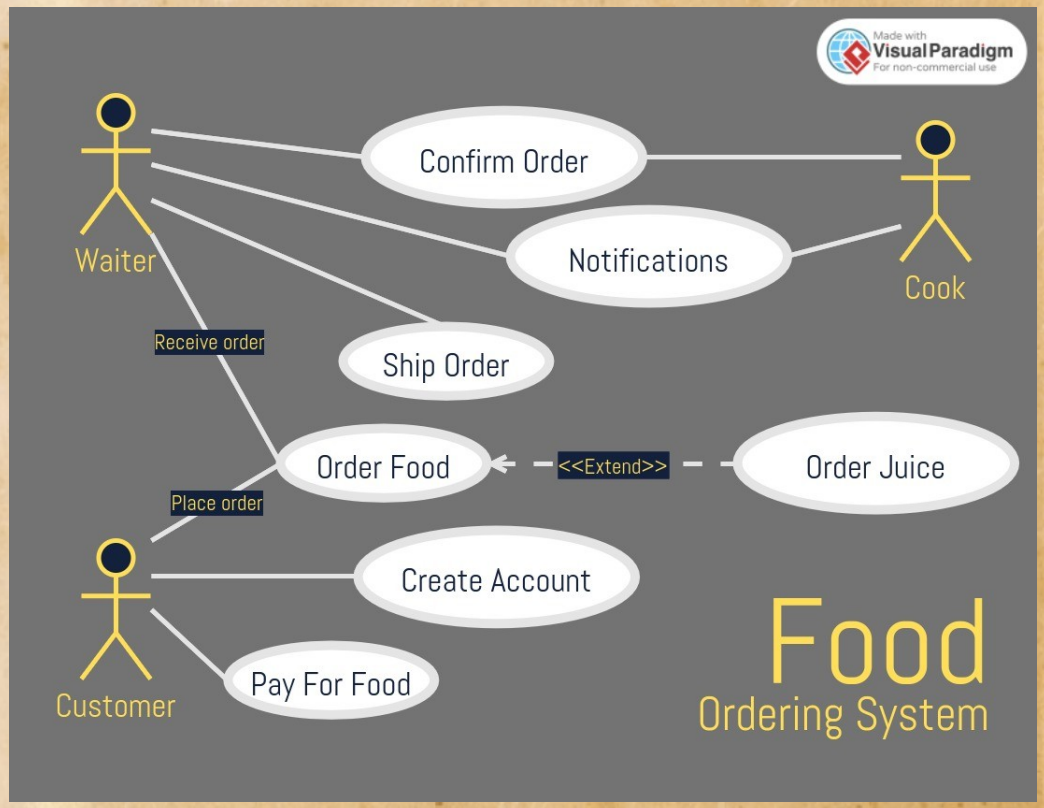
State machine diagram

The diagram shows the different states that an order can be in, as well as the transitions between states. The diagram starts in the * state, which represents the initial state. From the initial state, the user can select a restaurant. Once a restaurant has been selected, the user can view the menu. The user can then select items from the menu and add them to the cart. Once the user is satisfied with their order, they can review it. If the user is happy with the order, they can pay for it. Once the order has been paid for, it is placed. The order is then confirmed, and the system returns to the initial state.


customer
login activity
successful
unsuccessful
unsuccessful
unsuccessful
enter website
forgot password
incorrect credentials
view food items
search food items
category
drop down menu
lunch
dinner
break fast
fast foods
junk food
deserts
vegetarian
non-vegetarian
sea food
enter card details
online payment
cash on delivery
generate invoice
generate bill
make payment
enter delivery address
place an order
add to cart
select food items
check status
log out
end

Use case Diagram

This diagram shows the different use cases of the system, as well as the actors involved in each use case

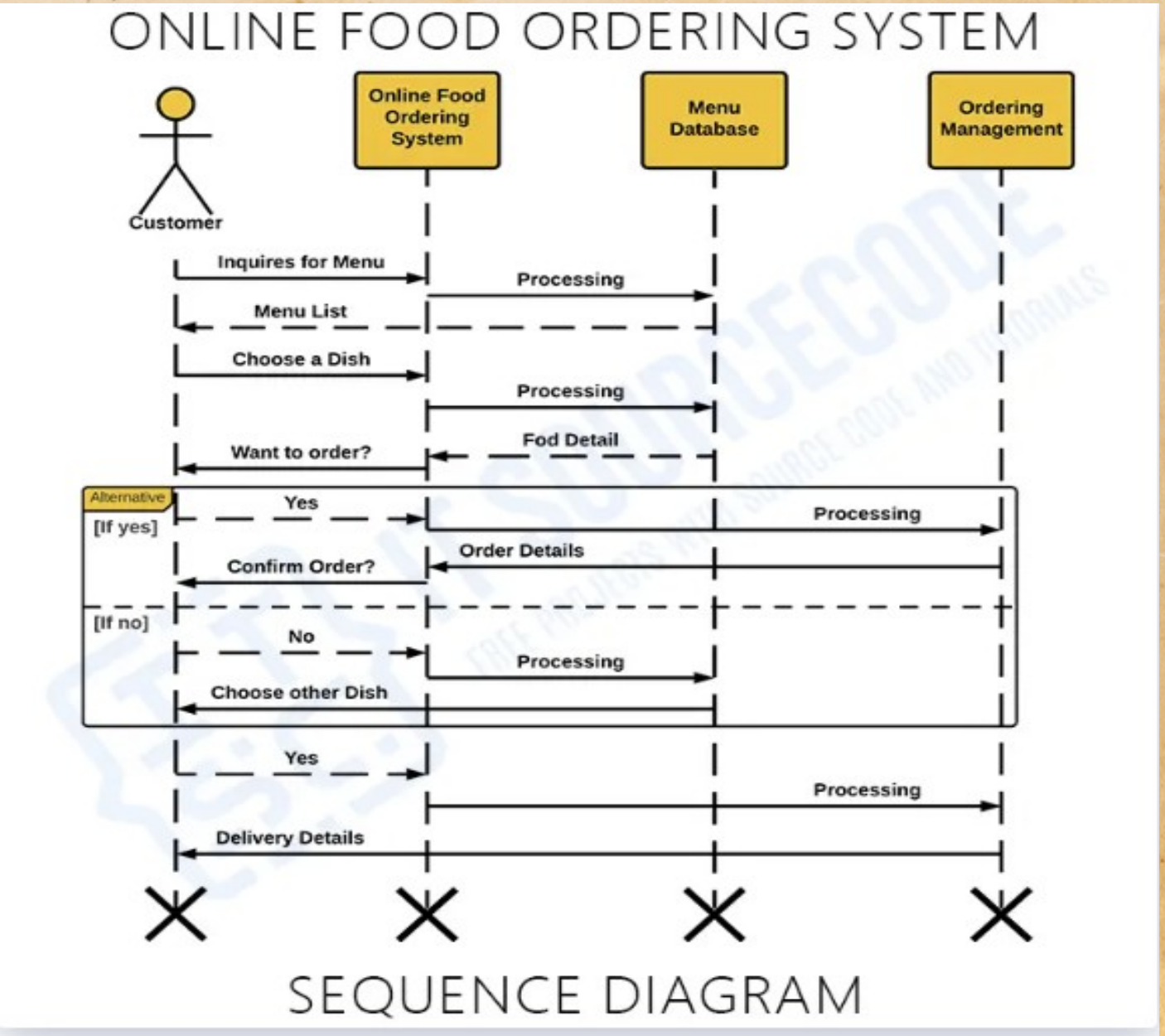


Sequence Diagram

Sequence diagram: This diagram shows the sequence of interactions between the system and the actors in a specific use case.

Here, I will be showing you the *Online Food Ordering System Sequence Diagram*. This design will enlighten you on how should the system or the actor approach each other.

This will also teach you on how would you develop the system to achieve its desired behavior. In addition to that, the design shows the detailed illustration of events sequenced and happens in Food Ordering System.This designed sequence diagram is able to show programmers and readers about the sequence of messages between the actor and the objects.


ONLINE FOOD ORDERING SYSTEM
Online Food Ordering System
Menu Database
Ordering Management
Customer
Inquires for Menu
Processing
Menu List
Choose a Dish
Processing
Fod Detail
Want to order?
Alternative
[If yes]
Yes
Processing
Order Details
Confirm Order?
[If no]
No
Processing
Choose other Dish
Yes
Processing
Delivery Details
SEQUENCE DIAGRAM

Thank you