

Ordering System Documentation

1. Introduction

The Ordering System is a software application designed to facilitate the ordering process for customers. It allows customers to place multiple orders, each of which can contain multiple items or multiple pieces of the same item. The system provides discounts to customers based on their order volume, with different discount tiers depending on the number of orders placed. Additionally, during the annual BFCM event, customers are eligible for an additional discount based on their tier. This document outlines the requirements and specifications of the Ordering System.

2. Functional Requirements

The Ordering System should fulfil the following functional requirements:

2.1 Order Placement

- Customers should be able to place multiple orders.
- Each order can contain multiple items or multiple pieces of the same item.

2.2 Volume-based Discounts

- Customers who have placed more than 10 orders should be eligible for a 10% discount from the 11th order onwards.
- Customers who have placed more than 20 orders should be eligible for a 20% discount.

2.3 BFCM Promotion Discount

- Annually during the BFCM event, all customers should be eligible for an additional 15% discount based on their tier.

3. Non-functional Requirements

The Ordering System should adhere to the following non-functional requirements:

3.1 Performance

- The system should handle a high volume of orders efficiently, ensuring fast response times and minimal downtime.

3.2 Security

- Customer data should be securely stored and transmitted using encryption protocols.
- Access to sensitive customer information should be restricted to authorized personnel.

3.3 Scalability

- The system should be scalable to accommodate increasing order volumes and growing customer base.

4. Assumptions

Based on the requirements mentioned, the following assumptions are made:

- The system will have user authentication and authorization mechanisms to ensure secure access to customer accounts and order placement.
- Discounts will be applied automatically at the time of order placement based on the customer's order history and the BFCM event.
- The system will maintain a record of customer order history to determine discount eligibility.

5. Conclusion

The Ordering System aims to streamline the order placement process for customers while providing them with appropriate discounts based on their order volume and the BFCM promotion. By adhering to the functional and non-functional requirements outlined in this document, we aim to create a reliable, efficient, and secure ordering system.