Online Grocery Delivery Management System

Cover Page

Title: Online Grocery Delivery Management System

• Creator: Camden Thomson

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1. Introduction

This document outlines the system requirements for the Online Grocery Delivery Management System, aiming to enhance the grocery shopping experience through a user-friendly platform.

2. Problem Statement

In today's fast-paced world, grocery shopping is often time-consuming for individuals with busy schedules, senior citizens, or those with limited access to physical stores. Existing grocery delivery services face inefficiencies such as delayed deliveries, inventory mismanagement, and a lack of streamlined processes for selecting items, tracking deliveries, and receiving real-time updates. Customers expect a user-friendly system that resolves these issues, provides timely delivery, ensures product availability, and offers real-time tracking. Store managers need a

system that improves inventory control and ensures effective communication between delivery personnel and customers.

3. System Requirements

Users:

- Customer
- Delivery Personnel
- Grocery Store Manager

Functional Requirements:

N	Requireme nt ID	Prio r i t y	Description
R		Hig h	Customers should be able to browse products by category, brand, and price.
R	·	Hig h	The system should provide real-time updates on product availability.
R	·	Hig h	The system should allow customers to schedule delivery times.

R	Hig h	Customers should be able to track their orders via GPS in real time.
R	Hig h	Inventory management should automatically update based on orders placed.
R	Med i u m	The system should notify customers of order confirmations, dispatches, and delivery status.
R	Hig h	Store managers should have access to a dashboard showing sales trends and inventory levels.
R	Hig h	The system should allow secure payments through a third-party payment gateway.

Nonfunctional Requirements (FURPS):

- **Functionality:** The system should support real-time inventory updates and notifications for all users.
- **Usability:** The interface should be simple and intuitive for non-technical users (e.g., senior citizens).

- **Reliability:** The system should operate with 99% uptime to handle peak grocery shopping periods.
- **Performance:** The system should process and confirm orders within 5 seconds.
- **Supportability:** The system should be easy to maintain and update, supporting new payment options and additional stores.

4. Diagrams

- **Block Diagram:** A diagram showing the system architecture.
- System Sequence Diagram: Illustrating use case processes.

5. User Interface Specification

- **Homepage:** The homepage will feature a user-friendly interface where customers can browse product categories, search for specific items, and view featured promotions.
- Shopping Cart Interface: The shopping cart will allow users to view selected items, modify quantities, remove items, and see the total cost, including tax and delivery fees. It will also provide an option to proceed to checkout with a secure payment gateway.
- Delivery Tracking Page with GPS: Users will be able to track the status of their deliveries in real-time via a GPS interface. The interface will display the current location of the delivery driver and estimated arrival time. Notifications will update automatically.

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