

**Title:** Online Grocery Delivery Management System

**Creator:** Camden Thomson

## DEMO VIDEO:

"C:\Users\Camden\Videos\DEMO VIDEO.mkv"

Copy the link and place it in your browser and it should download the video.

### Problem Statement

In today's fast-paced world, traditional grocery shopping can be time-consuming and inconvenient. Many grocery delivery services face issues such as delayed deliveries, inventory mismanagement, and lack of real-time updates, leading to customer dissatisfaction. Our Online Grocery Delivery Management System seeks to address these issues, providing a seamless and efficient shopping experience for customers while empowering store managers with improved order and inventory management tools.

### Objectives of the System

- **Enhanced User Interface:** Customers can intuitively browse, add items to a cart, and check out.
- **Real-time Updates:** Notifications for order status and product availability.
- **Scheduling Flexibility:** Customers can select preferred delivery windows.
- **Inventory Management:** Store managers can track stock and trends.
- **Seamless Communication:** Notifications streamline interactions between customers, delivery staff, and managers.

### Key Features

- Browse and filter grocery items by category, brand, and availability.
- Real-time delivery tracking via GPS integration.
- Automated notifications for order confirmations and delivery updates.
- Inventory dashboard for efficient stock management.
- Integrated Stripe payment gateway for secure transactions.

### System Requirements

- **Users:** Customer, Delivery Personnel, Grocery Store Manager.
- **Product Search:** Available via category, brand, or product name.
- **Order Management:** View order history, modify orders, and schedule deliveries.

- **Notifications:** Automated updates on order status.

## Tech Stack

- **Front-end:**
  - **Visual Studio Code** or **Notepad++:** Used for coding the user interface, allowing for efficient development with built-in features like syntax highlighting and version control.
- **Back-end:**
  - **Visual Studio Code** or **Notepad++:** These tools will also be used for developing the server-side application, managing business logic, and handling requests from the front end.
- **Database:**
  - **MySQL:** A relational database management system to store and manage user data, product details, and order information.
- **APIs:**
  - **Google Maps:** For real-time tracking of deliveries.
  - **Stripe:** For secure payment processing.
-