Title: Online Grocery Delivery Management System
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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.
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