

UNIVERSIDAD DE LAS FUERZAS ARMADAS ESPE
ADVANCED WEB PROGRAMING
NRC 27819

Minimarket Online Sales and Delivery Management System

INTEGRANTES:

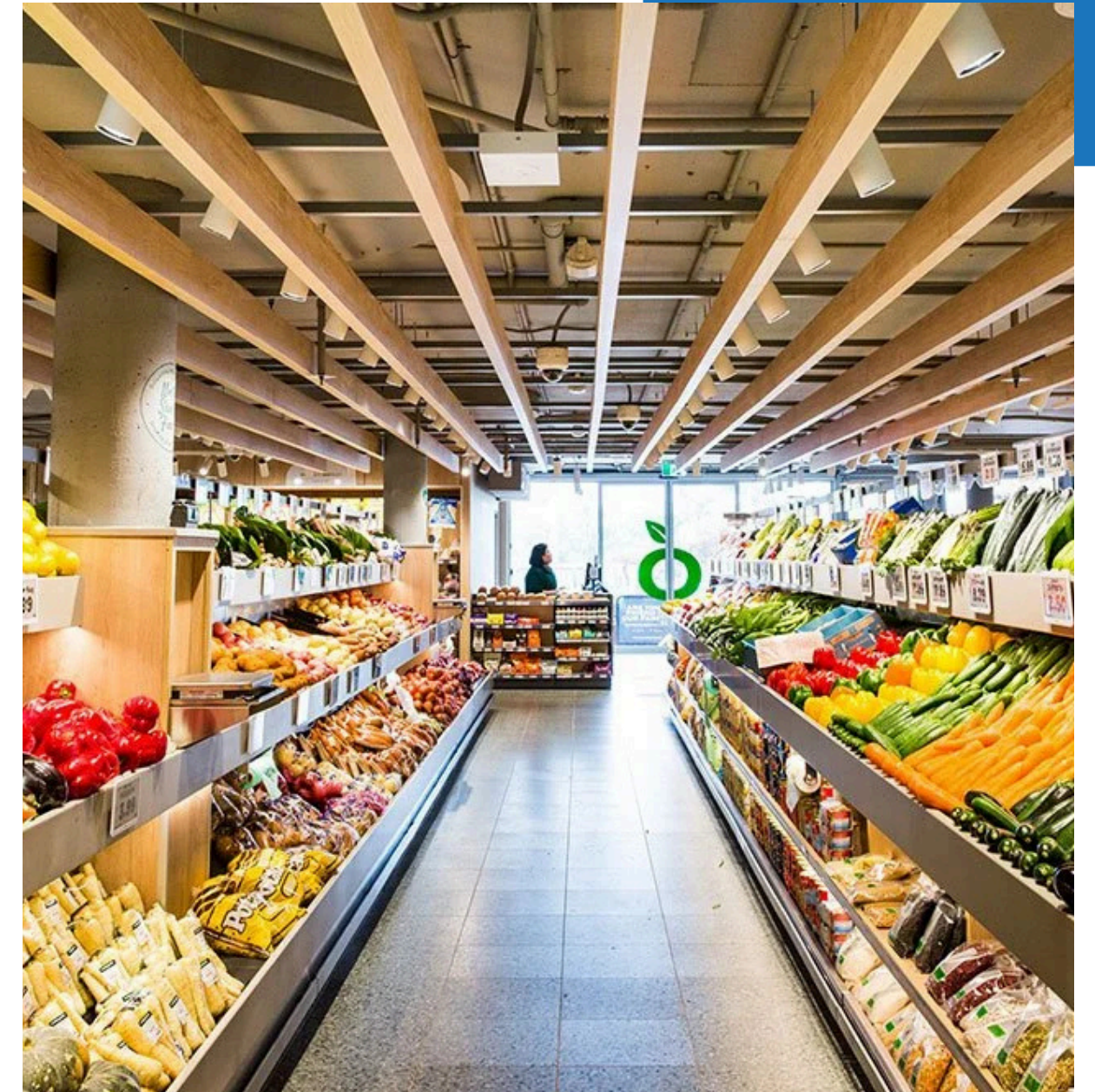
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Problem

The minimarket faces difficulties keeping up with customer demand due to its reliance on in-person sales and manual stock control. This often results in inventory errors, delayed orders, and limited customer reach. There is also no organized way to promote products or track sales performance. To overcome these challenges, a digital solution is needed to simplify management, improve efficiency, and connect the store with customers more effectively.



Overview

In the retail domain, customers, sales managers, and delivery personnel must coordinate efficiently to ensure fast, accurate, and satisfying shopping experiences. A digital platform simplifies this by centralizing product display, order management, and delivery tracking.

The goal of this application is to provide the minimarket with a digital storefront where:

- Customers can view available products, promotions, and prices.
- Orders can be placed online and tracked until delivery.
- Administrators can manage products, inventory, and promotions in real time.
- The system generates sales and inventory reports for business insights.

This web platform bridges the physical minimarket with the online marketplace, increasing visibility, customer satisfaction, and operational efficiency.



Background

Each product has its own record in the system, including name, price, category, stock quantity, and promotional details. When customers place an order, the system creates an order record linking the customer with selected products and quantities. Orders progress through different states—such as Pending, Processing, Out for Delivery, or Completed—until the transaction is finalized.

Basic data associated with the system includes:

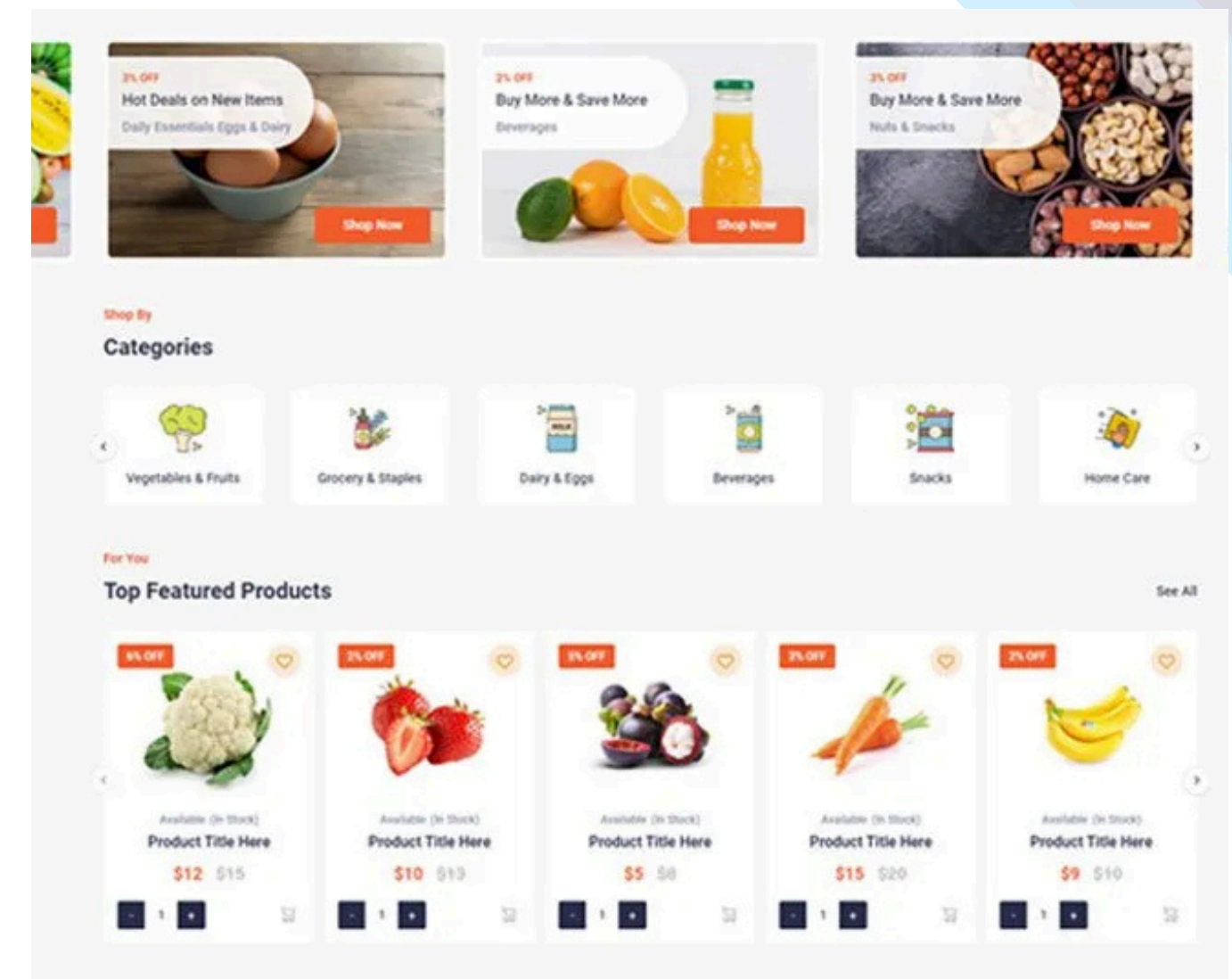
- Product ID and Name
- Category and Description
- Price and Stock Quantity
- Promotion or Discount Information
- Customer Name, Address, and Contact Details
- Order ID and Status
- Payment Method and Delivery Date

This structured data ensures smooth inventory management, sales tracking, and performance analysis.

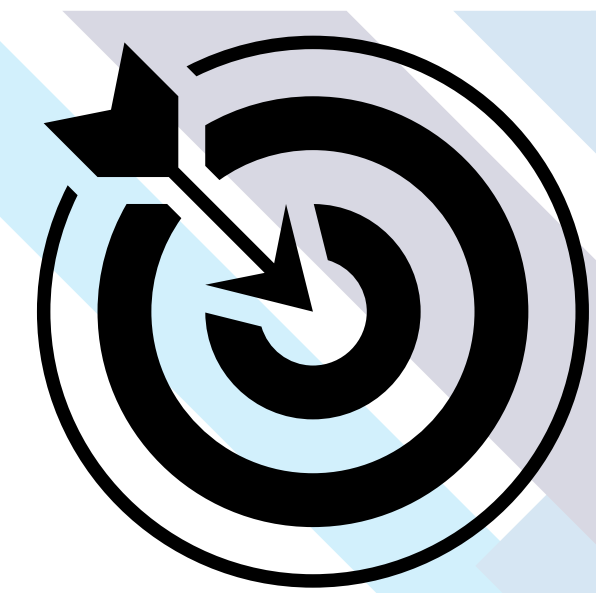
Core functionalities



1. **Product Catalog and Browsing** – Displays all available products organized by category.
2. **Search and Filter System** – Allows users to search for products by name, category, or price range.
3. **Shopping Cart and Online Ordering** – Customers can add items to their cart, update quantities, and confirm purchases.
4. **User Registration and Login** – Enables customers to create accounts, save addresses, and view their order history.



Core functionalities



5. **Promotions and Discounts Module** – Allows the creation of promotional campaigns.

6. **Order Tracking and Delivery Management** – Orders move through clear statuses: Pending, Processing, Out for Delivery, and Completed.

7. **Payment Processing Integration** – Supports secure online payment options (credit card, debit, or cash-on-delivery).

8. **Sales and Performance Dashboard** – Provides administrators with visual summaries: total sales, best-selling products, etc.

9. **Customer Feedback and Ratings** – Customers can rate products and share feedback, helping improve service and trust.



Example Data



Order ID	Customer	Product	Quantity	Status	Total (\$)	Delivery Date
ORD-001	María Torres	Milk (1L)	3	Completed	4.5	5/12/2025
ORD-002	José Andrade	Rice (5kg)	2	Out for Delivery	14	5/13/2025
ORD-003	Ana Pérez	Laundry Soap	1	Pending	3	—

Activity summaries can be computed as:
Total Sales per Day = Sum of all completed order totals.
Top-Selling Products = Products with the highest sales quantity.
Average Order Value = (Total sales ÷ Number of completed orders).

Performance Metrics

The system provides analytical data such as:

- Total Sales per Day, Week, or Month.
- Stock Turnover Rate (how fast products sell out).
- Most Purchased Categories.
- Delivery Efficiency (average delivery time).
- Customer Retention Rate (repeat purchases).

These metrics support better planning, restocking decisions, and promotional strategies.



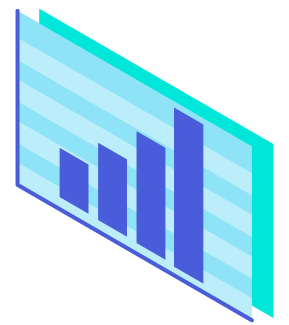
Conclusion

This web application serves as a complete digital marketplace for the minimarket, allowing customers to shop conveniently online while helping administrators efficiently manage products, stock, and deliveries. By combining real-time order management with automated reports and customer interaction tools, the system enhances productivity, transparency, and customer satisfaction. Its modular and scalable design supports future features like loyalty programs, live chat support, ensuring continued growth and adaptability for the minimarket's business model.

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**THANK YOU
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TIME!**



Supermarket Star

