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# **Daily Needs (An E-Commerce Platform)**

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**ABSTRACT:** The Daily Needs Shop is a mobile-first e-commerce platform designed to simplify how users purchase everyday essentials like snacks, packaged food, and ice cream. With the growing reach of the internet, this app connects consumers and businesses through a secure, user-friendly shopping experience eliminating the need for traditional retail models. The project also explores how safe online transactions can be carried out over unsecured networks using modern encryption methods. By combining convenience, accessibility, and secure communication, the app reflects the future of digital commerce for daily needs.

**KEYWORDS**: E-commerce ,Daily essentials, Web application, Online grocery, Secure transactions, Product management, Order tracking, Digital payments, User-friendly interface, Customer experience, Cart system, Online retail, Grocery delivery, Mobile shopping, Admin panel, Real-time updates, Inventory management, Encrypted communication, Packaged food delivery

# I. INTRODUCTION

The rise of the internet has transformed how businesses operate, making digital platforms essential for modern commerce. E-commerce enables companies to reach customers globally, offering convenience, speed, and flexibility in transactions.

**Daily Needs Shop** is a mobile-first e-commerce application designed to provide users with easy access to everyday essentials like packaged food, snacks, and ice cream. This project highlights how secure, user-friendly technology can simplify the buying process while helping businesses manage products, orders, and customer interactions efficiently. As online shopping continues to grow, Daily Needs Shop aims to deliver a seamless experience that reflects the future of daily retail.

#### **II. RELATED WORK**

Over the years, e-commerce has evolved from basic electronic transactions to complex online platforms. Initially, it focused on technologies like Electronic Data Interchange (EDI) and Electronic Funds Transfer (EFT) to support business communication. As internet access grew, especially during the 1990s, e-commerce expanded to include web-based shopping with features like secure payments and digital catalogs.Modern e-commerce platforms now integrate advanced tools such as data analytics, inventory management, and customer relationship systems. Popular platforms have set a benchmark by offering user-friendly interfaces, smooth navigation, and secure checkout processes. Inspired by these developments, the Daily Needs Shop project incorporates proven features like product categorization, admin control, customer accounts, and cart-based ordering to deliver a reliable and efficient shopping experience.

### III. DETAILED ANALYSIS

The goal of the Daily Needs Shop application is to provide a user-friendly, interactive experience for both customers and administrators. To achieve this, significant research was conducted to understand user behavior, expectations, and system interaction needs. The system architecture and interface have been carefully designed to ensure a seamless experience.

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# A. User Interaction Analysis

The system supports two primary user roles:

- Customer: The end-user who browses and purchases products.
- Administrator: The backend user responsible for managing categories, products, manufacturers, and orders.
- To improve usability, the system incorporates the following design considerations for customers:
- Clear Shopping Cart Functionality: Users should be able to distinguish when items are saved to the cart and when they are not.
- Smooth Navigation: After adding an item to the cart, users can easily return to browsing other parts of the site.
- Efficient Product Search and Selection: Products are listed in organized categories to support quick scanning and selection.
- User-Friendly Layout: All product pages follow a consistent and clean layout, with clear call-to-action buttons like "Add to Cart" and "Buy Now."
- Logical Structure: Categories and product types are grouped intuitively, reducing the time spent finding specific items.

For administrators, the system offers a structured interface to:

- Add, update, or delete product categories and manufacturers.
- Publish or unpublish products or manufacturers based on availability.
- Manage customer orders, including changing order statuses. The admin dashboard ensures smooth backend operations with clear menu navigation and status indicators.
- B. Data Requirements :

The system relies on structured and validated data input from both customers and administrators: Customer Perspective:

- Customers must register or log in to purchase products.
- Customers can view all products but need an account to add items to the cart or place orders.
- Orders are stored and managed under the customer's account.

Admin Perspective:

- Admins manage all core entities:
- Product Categories: Add, update, delete, publish/unpublish.
- Manufacturers: Add, update, delete, manage visibility.
- Products: CRUD operations (Create, Read, Update, Delete), and visibility control.
- Orders: Track, update, or cancel based on customer requests.

• The admin panel includes functionality to ensure products and categories are only shown when active or in stock. An essential feature of the system is user feedback. Any interaction between users and the system triggers appropriate responses—e.g., confirmation messages, error alerts, or data updates—creating a complete and interactive user cycle.

C. Process Requirements :

To ensure security and proper workflow, the following process-related requirements have been defined:

Authentication:

- Only authorized admins can access and manage backend functionalities.
- Customers must be logged in to make purchases or view order history. Admin Access Control:
- Admins can perform all management functions including modifying product, category, and manufacturer data.
- Admins can also view and update customer orders and order statuses.



Customer Access Control:

• Customers can only view products and their own order history.

• Customers must authenticate before interacting with the cart or placing an order.

These requirements are enforced through a role-based access system, ensuring data integrity and secure access.

# IV.ER DAIGRAM



### V. LITERATURE REVIEW

The rise of e-commerce has been widely studied in both academic and industrial research. Studies show that user experience, simplicity, and system performance are key factors influencing online shopping behavior. Researchers emphasize that intuitive navigation, clear product categorization, and secure payment gateways greatly enhance user satisfaction.

Several papers highlight the importance of backend systems for managing products, orders, and user data. Admin dashboards, product filtering, and inventory control are common features found in successful e-commerce applications. Moreover, literature also points to the growing need for responsive design, especially in mobile-first platforms, to ensure accessibility and usability across different devices.

The Daily Needs Shop project aligns with these findings by focusing on a clean user interface, essential admin features, and secure customer interactions. This literature base has guided the design and development to meet real-world expectations of modern e-commerce systems.

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