

PROBLEM

Efficiently managing inventory can be a challenging task for businesses relying on traditional methods such as spreadsheets or outdated systems. These tools often lack real-time updates, dynamic location management, and the ability to integrate vendor or billing processes. The absence of a comprehensive and visually intuitive interface often leads to inefficiencies, errors, and delays in operations.

OBJECT DESIGN

The project organizes data using structured entities:

- Inventories: Stores owner info, products, locations, orders, and customers.
- Products: Captures Item Code, SKU, description, quantity, threshold, and photo.
- Locations: Represents aisles, racks, and bins, allowing precise tracking.
- Orders: Includes purchase order details like vendor information, itemized lists, and attachments.
- Customers: Manages customer profiles and related invoices.

CURRENT SYSTEM

Existing systems typically fail to provide essential modern features such as:

- A centralized dashboard to monitor orders and inventory.
- The ability to dynamically add, edit, and manage product information.
- Intuitive visual tools for managing inventory locations, such as aisles, racks, and bins.
- Seamless vendor management and purchase order creation.

This creates a gap that the current system aims to address by providing a real-time, visually intuitive solution.

REQUIREMENTS

Functional Requirements

- Real-Time Updates: Instant inventory synchronization.
- Scalability: Support growing product databases.
- Integration: Seamless Firebase connection.
- Authentication: Secure login for authorized access.
- Interactive Tools: Manage aisles, racks, and bins dynamically.

Non-Functional Requirements

- Security: Protect sensitive data and ensure integrity.
- Scalability: Support growing product databases.

INDIVIDUAL CONTRIBUTION

My role focused on designing and implementing the Home Page, Features, Pricing, and Settings tabs for the Invently platform. This involved creating a user-friendly interface with seamless transitions, incorporating a dark mode toggle, and ensuring consistent functionality across all tabs. Developing intuitive navigation systems, responsive layouts, and visually appealing designs that cater to a diverse user base.

IMPLEMENTATION



Frontend: CSS, HTML, CSS



Backend/Database: Firebase



Barcode Scanning: ZXING

SUMMARY

By addressing the limitations of existing inventory systems, which often lack modern capabilities such as a centralized dashboard, dynamic product management, and intuitive inventory visualization, I contributed to bridging the gap with a visually intuitive and real-time solution. These features empower users to monitor and manage orders and inventory effectively while providing seamless vendor management and purchase order creation. My contributions enhanced the platform's usability, adaptability, and overall user experience.

SCREENSHOTS

