

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managing inventory can be a challenging task for businesses relying on traditional methods such as spreadsheets or outdated systems.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.

INDIVIDUAL CONTRIBUTION

I worked on the Edit Product page, designing a multi-tab interface to manage product details, stock organization, and purchase orders.

This includes the Detail Tab for updating product information like SKUs, categories, and storage locations, the Stock Tab for organizing inventory across aisles and bins, and the Purchase Orders Tab for managing vendors, billing, and itemized orders.

SUMMARY

This inventory management system bridges the gap between outdated tools and modern business needs. With its real-time updates, dynamic location management, and intuitive user interface, it enables businesses to streamline operations, reduce errors, and improve efficiency. By integrating essential features like purchase order creation and customer management, the system provides a comprehensive solution for inventory management challenges.

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

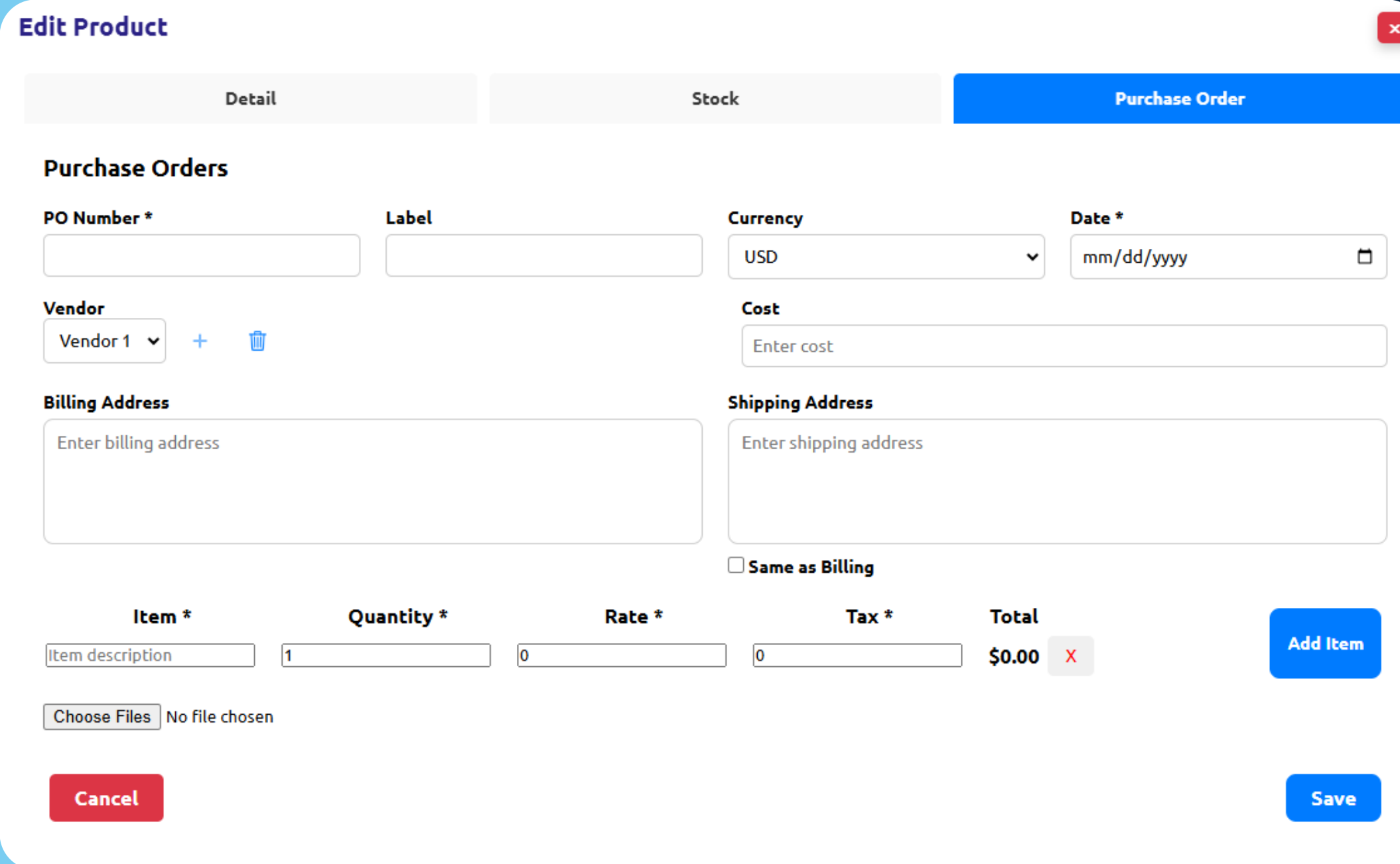
- Functional Requirements
- Real-Time Updates: Instant inventory synchronization.
 - Scalability: Support growing product databases.
 - Integration: Seamless Firebase connection.
 - Authentication: Secure login for authorized access.
 - Interactive Tools: Manage aisles, racks, and bins dynamically.
- Non-Functional Requirements
- Security: Protect sensitive data and ensure integrity.
 - Scalability: Support growing product databases.

IMPLEMENTATION



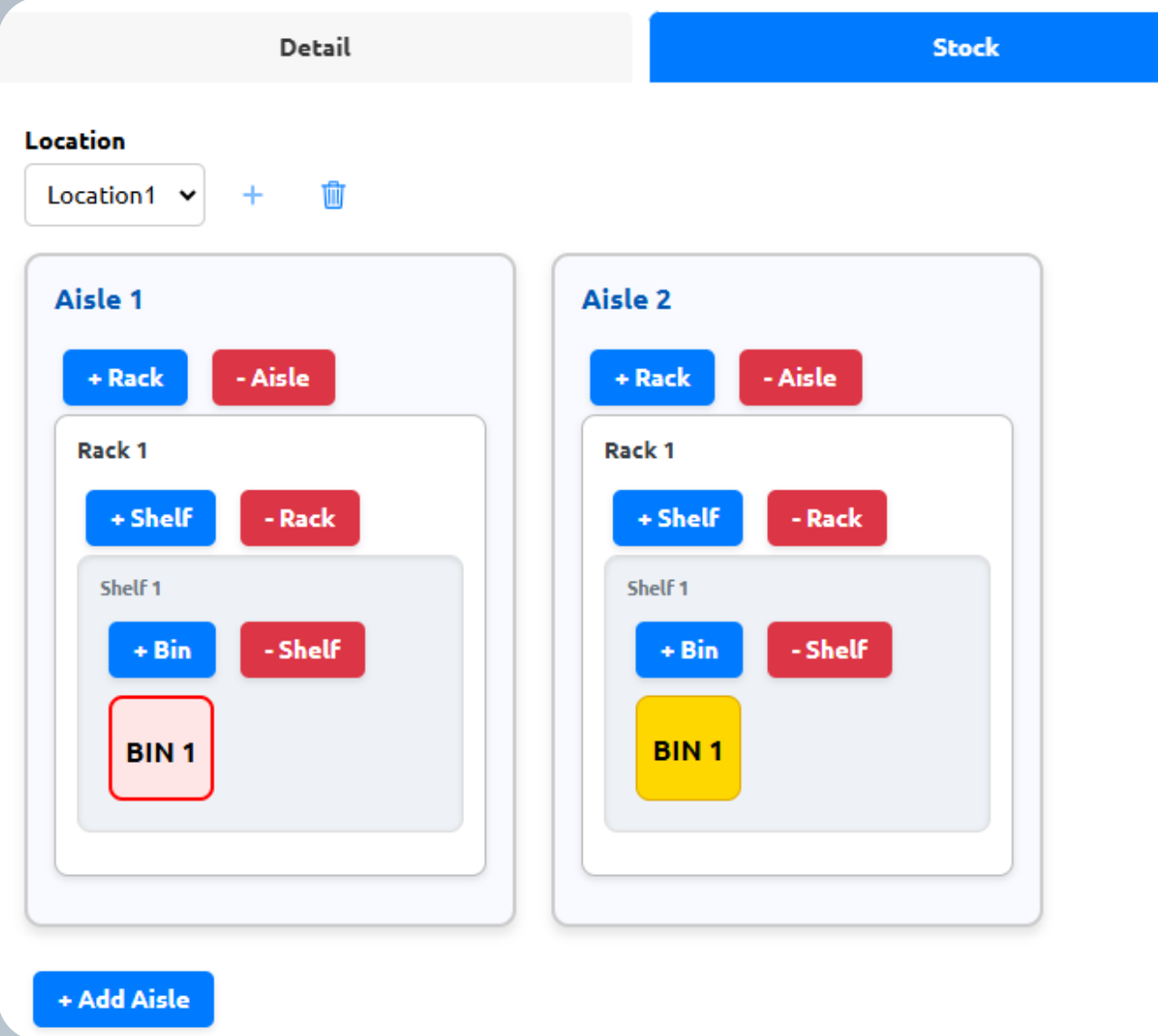
DETAIL TAB

Purpose: Allows users to update product details such as item code, SKU, description, quantity, and category.



STOCK TAB

Purpose: Visual representation and management of product storage across multiple aisles, racks, shelves, and bins.



PURCHASE ORDERS TAB

Purpose: Manage purchase orders for products, including billing, shipping, and itemized details.

