Inventory Management System - Cultural Fest

Overview

This document outlines the key features and functionalities of the Inventory Management System for our college's Cultural Fest. The system is designed to manage and track inventory items, facilitate item requests, and provide a detailed dashboard with analytics.

Features and Functionalities

Hero Page (Main Page)

Provides options to:

• Request an item (Fill a quotation form)

• Update inventory details

• View the dashboard (if the user has access rights)

• Acts as a navigation hub for the system.

Forms Section (Switchable Forms - Request & Update)

Users can toggle between two forms:

Request Application Form

Allows users to submit requests for items. Requires details such as:

• Item Name

• Quantity Required

• Purpose of Request

• Department/OrganizationOn submission, the user is redirected to a Request Summary Page.

Item Updation Form

Allows authorized users to update inventory records. Requires details such as:

• Item Name

• Quantity Available

• Item Category

• Vendor Details (if applicable)On submission, the user is redirected to the Dashboard Page.

Request Summary Page

Displays details such as:

• Total requests made

• List of requested items

• Approved requests

• Pending requests

• Dashboard access for authorized users

Dashboard Page

Displays all inventory-related data using graphs and charts. Features:

• List of available inventory items with quantities.

• Visual representation of stock levels and usage trends.

• Filtering and sorting options for better navigation.

User Flow

1. User lands on the Hero Page.2. User selects either Request an Item or Update Inventory.3. Based on selection, the corresponding form is displayed.

4. On form submission: - Request Form -> Redirect to Request Summary Page.   - Update Form -> Redirect to Dashboard Page.5. Authorized users can access the Dashboard Page directly.

Developer Notes

• The system should implement role-based access control (RBAC) to manage permissions.

• The UI should allow smooth switching between forms (e.g., via tabs or buttons).

• Charts and graphs on the dashboard should provide meaningful insights into inventory trends.

• Ensure proper validation for form inputs to maintain data integrity.