FiKi - Digital Marketplace

Business Use-Case Specification: Manage Inventory

Version 1.0

Revision History

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Business Use-Case Specification: Manage Inventory

# Introduction

## Purpose

## This specification describes the business use case for FIKI’s inventory management system.

## Scope

In this version the specification will not include a prototype.

## Definitions, Acronyms, and Abbreviations

NA.

## References

NA.

## Overview

NA.

# Business Use-Case Name

## Brief Description

Explanation of how the use case works: Manage Inventory.

# Performance Goals

Real-time inventory updates within 5 seconds.

Barcode scanning response under 1 second.

Maximum 2-second response time for inventory queries.

Battery optimization for 8-hour warehouse shifts.

Support for simultaneous use by up to 200 warehouse staff.

99.9% scanning accuracy rate

Maximum system response time of 2 seconds for inventory queries.

# Workflow

## Basic Workflow

When accessing the "**Stock Check**" function from the main dashboard, warehouse staff will be presented with the stock checking interface. The interface prominently displays a camera viewfinder for barcode/QR code scanning, with a "**Scan**" button below the camera viewfinder. Upon successful scan, the system immediately displays the product details screen showing current stock levels, location information, and expiry dates. Staff can swipe right to access the quick actions menu. For manual entry, staff can tap the "**Manual Entry**" input at the top of the screen and input the SKU or product ID. The interface also includes a "**Recent Scans**" section at the bottom, showing the last 10 scanned items for quick reference.

When selecting the "**Inventory Update**" function from the main menu, staff will see a grid-style dashboard displaying different update options. The main screen features four primary actions: "**Add Stock**", "**Remove Stock**", "**Transfer Stock**", and "**Process Returns**". When selecting one of the actions, staff can either scan products individually or tap "**Batch Update**" to process multiple items simultaneously. The batch update interface displays a list format where staff can input quantities against scanned items, with a running total shown at the bottom. Each entry in the list has a "**Verify**" checkbox that can be ticked once the quantity is confirmed. For stock removal or transfers, staff must select a reason code from a dropdown menu and can attach photos if necessary. The interface includes a "**Save Draft**" feature that automatically stores incomplete updates, accessible from the "**Drafts**" tab at the top of the screen.

Upon entering the "**Alerts**" section through the bottom navigation bar, staff will see a color-coded list of all active alerts, sorted by priority. Red indicates critical alerts, yellow for warnings, and blue for informational notices. Each alert card displays the product name, alert type and the subject of the alert. Staff can filter alerts using the filter bar at the top, which includes options for "**Priority**", "**Category**", "**Location**", and "**Date Range**". There's a direct "**Reorder**" button, next to that filter bar, that pre-fills a reorder form with suggested quantities. Tapping an alert opens the detailed view, where staff can see the full alert information and available actions. Staff can also choose to "**Snooze**" alerts for a specified time period or "**Delegate**" them to other team members using the action buttons at the bottom of each alert card. The interface includes a "**Bulk Action**" mode, activated by long-pressing any alert, allowing staff to process multiple alerts simultaneously.

When accessing the "**Reports**" function from the main menu, users will be presented with a dashboard showing the list of reported updates. At the top of the screen, there is a “**Filter Bar**” where users can access different report types like "**Daily Movement**", "**Discrepancy Reports**" and "**Error Logs**". The interface includes options to "**Save Report Configuration**" for frequently used reports and "**Schedule Reports**" for automated generation. These features can be accessed through the **“Settings”** icon placed right next to the filter bar. Staff can export reports in various formats by tapping the "**Export**" button, which opens a modal with format options including PDF, Excel, and CSV. The report details interface also features a "**Quick Insights**" section that automatically highlights significant patterns or issues in the data through graphical representations, and a “**Delete**” button to delete the report that is being viewed.

## Alternative Workflows

NA.

# Category

Core use case.

# Risk

Data synchronization delays.

Network connectivity issues.

Device battery limitations.

Scanning hardware compatibility.

Security in shared device scenarios.

Physical device damage in the warehouse.

Training requirements for staff.

# Possibilities

NA.

# Process Owner

NA.

# Special Requirements

NA.

# Extension Points

NA.