

Basic Information

- **Product Name:** Smart Inventory Dashboard
- **PM Name:** Sarah Chen
- **Date:** June 17, 2025
- **Version:** 1.0
- **Priority:** High
- **Target Release:** Q3 2025

Problem Statement

What problem are we solving? Small to medium retail businesses struggle to track inventory across multiple locations and sales channels. Current solutions are either too expensive or lack real-time synchronization, leading to stockouts, overordering, and lost revenue.

Who experiences this problem? Retail business owners, inventory managers, and store operations teams at companies with 2-50 locations and annual revenue of \$1M-\$50M.

Solution Overview

What are we building? A web-based inventory management dashboard that provides real-time inventory tracking, automated reorder alerts, and sales forecasting across multiple locations and sales channels.

Key Features (bullet points):

- Real-time inventory tracking across locations
- Automated low-stock alerts and reorder suggestions
- Sales forecasting based on historical data
- Multi-channel inventory synchronization (POS, e-commerce, warehouse)
- Mobile-responsive dashboard for on-the-go management
- Barcode scanning integration
- Supplier management and purchase order generation

Success Metrics

How will we measure success?

- Primary: 30% reduction in stockouts within 3 months of implementation
- Secondary: 25% reduction in excess inventory holding costs
- Engagement: 80% daily active usage among target users
- NPS: Achieve NPS score of 50+ within 6 months

User Stories

Key user workflows:

1. As an inventory manager, I want to see real-time stock levels across all locations so I can make informed restocking decisions
2. As a store owner, I want automated alerts when items are running low so I never miss a sale due to stockouts
3. As a purchasing manager, I want sales forecasting to help me plan seasonal inventory purchases
4. As a mobile user, I want to check inventory levels on my phone while visiting suppliers

Technical Requirements

Platform: Web application (responsive design) **Integrations needed:** POS systems (Square, Shopify), accounting software (QuickBooks), barcode scanners **Performance requirements:** Dashboard loads in under 2 seconds, supports up to 10,000 SKUs per account **Security requirements:** SOC 2 compliance, encrypted data transmission, role-based access control

Constraints & Assumptions

Budget constraints: \$500K development budget **Timeline constraints:** Must launch before holiday season (October 2025) **Technical constraints:** Must integrate with existing POS systems without requiring hardware changes **Assumptions:** Target customers have basic internet connectivity and smartphone access

Dependencies

External: POS system APIs, third-party barcode scanning libraries **Internal:** Data engineering team for analytics pipeline, design team for UI/UX