

Software Requirements Specification (SRS)

Project Title: Inventory & Finance Management System

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1. Introduction

1.1 Purpose

The purpose of this document is to define the requirements for an Inventory & Finance Management System. The system will automate inventory control, streamline financial operations, manage customer/vendor accounts, and provide reporting for better decision-making.

1.2 Scope

The system will support one warehouse only. It will provide real-time stock tracking, vendor/customer account management, financial reporting, and invoicing with a focus on cost efficiency and ease of use.

1.3 Intended Users

- Inventory Operator – Can view and manage inventory dashboard only
- Financial + Inventory Operator – Can view and manage both inventory and finance dashboards

(No Admin role is required)

2. System Overview

- Platform: final tech stack to be decided
- Database: to be finalized
- Users: Small team (Inventory Operator, Financial + Inventory Operator)
- Key Focus: Full accounting with ledgers, real-time inventory tracking, and simplified reporting

3. Functional Requirements

3.1 Inventory Management

- Track stock using barcode/QR codes and manual entry
- Automatic inventory updates from sales and purchases
- Supplier management (vendors & clients)
- Features:
 - Stock adjustments
 - Serial number tracking
 - Models / Types categorization
- Reports:
 - Stock valuation

- Real-time stock levels

3.2 Finance & Accounting

- Full accounting (including vendors and ledgers)
- Invoices: Only custom invoice templates
- Manage:
 - Customer credits/dues
 - Installment-based payments
- Tax compliance: GST + VAT
- Reports:
 - Profit & Loss
 - Balance Sheet
 - Cash Flow Statement

3.3 User Roles & Security

- Inventory Operator → access only to inventory dashboard
- Financial + Inventory Operator → access to both inventory and finance dashboards
- Role-based access control enforced

3.4 Reporting & Analytics

- KPIs:
 - Inventory turnover
 - Gross profit margin
 - Accounts receivable aging
- Export reports in Excel/PDF

3.5 Integration & Automation

- Purchases auto-update inventory
- Supplier invoices auto-update expenses
- No e-commerce/POS or banking API integrations required

4. Non-Functional Requirements

- Performance: Handle small transaction volume (~50–60 per month) efficiently
- Security: Role-based access; secure database communication
- Usability: User-friendly with minimal training required
- Cost efficiency: Only essential features, avoiding unnecessary complexity

5. Migration & Training

- Data migration from existing Excel files into the new system
- Provide a demo/practice environment for staff training

6. System Constraints

- final tech stack to be decided
- No admin role; only two defined roles
- Designed for small teams with limited users

7. Expected Outcomes

- Accurate, real-time inventory tracking
- Integrated vendor/client ledgers with financial accounting
- Streamlined reporting with GST + VAT compliance
- Simplified user roles and dashboards for operators
- Smooth migration from Excel and user adoption through training demos