

3. Stock Maintenance System

Software Specification System

1. Stock Maintenance System

1.1 Introduction

1.1 Purpose: To manage Inventory levels, track stock and automate reordering process.

1.2 Scope: Keep real-time stock levels and alert for low stock.

1.3 Overview: Provides real-time stock tracking, helping businesses manage inventory efficiently.

2. General Description:

- Users: Warehouse staff, inventory managers

- Benefits: Improved stock management and reduced stockouts

3. Functional Requirements

- Real-time Stock level tracking

- Reorder alerts when stock is low

4. Interface Requirements

- Integration with barcode/RFID systems

- Web-based dashboard for inventory management

5. Performance Requirements

- Stock updates within 5 seconds of movement

6. Design Constraints

- Must support large warehouse operations

7. Non-functional Requirements

- Security: Secure inventory data

- Reliability: Minimal downtime to avoid ^{stock} tracking errors

- Scalability: Supports growth and large inventory levels

8. Budget Estimate:

Time: 6 months

Cost: \$90,000 - \$120,000

Class Diagram:

