

### 3) ~~Product~~ Stock Maintenance System

#### \* Problem Statement:

Many businesses struggle with managing inventory manually, leading to errors, inefficiencies and delays.

The stock management system aims to automate inventory management, track stock in real time, generate reports, & alert users about low or out of stock items.

#### SRS Document

##### \* Introduction

##### \* Purpose of the document

The purpose of this document is to describe the software requirements for the stock management system. This system is intended to help businesses keep track of inventory & streamline operations such as stock procurement, sales & reporting.

##### \* Scope of the document:

The stock maintenance system will be used by retail businesses to maintain & manage their inventory. It will allow users to add, update, remove, & view stock items as well as track stock levels, generate reports & notify relevant users when stock levels are low.

##### \* Overview

The SRS document provides a comprehensive list of the software requirements for the stock maintenance system. The document includes both functional and non-functional requirements & describes system features, external interfaces, & performance criteria.

#### \* General description:

- Users: admin, warehouse staff, managers
- Operating environment: web browser
- Assumptions: internet connection, integration with existing ERP software

#### \* Functional requirements:

- Users: ~~an~~ login role based access, user managed by admin
- Stock item management: add, update, delete, view stocks
- Stock level tracking: real time stock quantities, automatically update stock
- Low stock alerts: set minimum stock thresholds, notify user
- Reporting: generate reports, export reports, search/filter stock items
- Backup & recovery: Data backups
- Audit logging: view logs by user or date
- multi location support: transfer stock b/w location

#### \* Non functional requirements:

- Performance: handle up to 10000 items & 100 users at a time
- Reliability: system must ensure 99.9% uptime
- Security: data encryption, role based access, https for all communications
- Usability: user friendly interface
- Scalability: capable of expanding
- Portability: browser compatibility

### \* Interface requirements

- UI: simple to use & accessible
- Hardware: support barcode scanners & other inventory devices
- Software: integration APIs for ERP, sales, database integration

### \* Performance requirements

- support at least 100 concurrent users
- Stock updates within 2 seconds
- Respons time for user interface

### \* Design constraints

- must support barcode
- Use relational database
- compatible with standard web browsers
- Use secure https protocols

### \* Preliminary schedule & budget:

- Requirement analysis - 2 weeks
- Design - 3 weeks
- Development - 6 weeks
- Testing - 3 weeks
- Deployment - 1 week
- Budget estimation: 15-20 lakhs

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