Stock management

1 Introduction

1.1 Purpose

this doc outlines the req & specification for stock management detailing its functionality design

1.2 Scope

this doc covers the objective, functionalities, dvpment cost and timeline of the stock managent system

1.3 Overview

Stock management system designed to streamline inventory process, providing real-time stock tracking, buying & selling stocks

2) General Description

Objectives of user can manage stock levels, need to purchase and sell stocks, reduce waste

User characteristics

Target users include inventory managers, warehouse staff.

Features and Benefits

Key features include real-time tracking, reporting and supplier management

3) **Functional Req**
   * Inventory tracking
   * Order processing
   * Supplier management -
   * Reporting
   * User management.

4) **Interface Req**
   - System should support data exchanges through API, and with e-commerce platforms & accounting software

5) **Performance Req**
   * Response time of system should be within 2s

   * Memory usage
      Must efficiently operate within 15@ memory

   * Error rate
      Error rate should be low as possible

6) Design Constraints

* Hardware limitation

System must run on std sever configuration (min 8GB)

* Software limitation

Must use compatible version of database

7) Non-functional Attributes

* Security

robust authentication & data encryption

* Portability

should accessible on various platform

* Reliability

Aim for 99.9% up time

8) Preliminary schedule & Budget

* Time duration

Estimated time is 6 month Including design, development, testing & deployment

* Cost estimate

estimated budget $150,000 including testing, maintainance