

Stock Management System	
Vision	Date: 04/04/2021

# Stock Management System

## Vision

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## Revision History

Date	Author(s)	Changes	Version
01/04/2021	Özgün Şen Berfu Anıl Esra Ateş Nehir Erdem	Initial Draft	v1.0
04/04/2021	Özgün Şen Berfu Anıl Esra Ateş Nehir Erdem	First Review Corrections Clarification of the requirements	v1.1

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## 1. Introduction

This document includes the vision and scope of the Stock Management System aim to check the stock of the current needed product status whether it is close to being understock or overstock for the production. In the case of closure to understock, the situation user is being notified. The same applies to the overstock situation. The system checks inventory on a daily basis. Stock managers can control, add and remove inventory items. When the request is approved, the stock level is reduced automatically. The application is suitable for third party electronic component manufacturing companies in terms of the application domain. This product will be a B2B multi-tenant SaaS solution. Since maintenance costs are spread across the architecture and take less time to set up, update and manage, multi-tenancy architecture is chosen.

## 2. Positioning

### 2.1 Problem Statement

The problem of	Thousands of parts need to be checked in the stock management system. Wrong process management causes system downtime due to lack of inventory items or unnecessary purchases can cause difficulties in warehouse management.
affects	Customers, Project Managers, Investors, Suppliers and Vendors, Employees
the impact of which is	Without inventory management, production processes can be interrupted. As a result, productivity decreases and production costs increase.
a successful solution would be	Provide information about stock levels to make timely and required quantity purchases by checking stock levels regularly

### 2.2 Product Position Statement

For	Stock Manager
Who	Responsible for the stock levels are sufficient for production
The (product name)	is a Stock Management System
That	Keeps stock levels under control Prevents understock or overstock situations Ensures timely purchase orders creation Prevents bottlenecks caused by stock levels
Unlike	Provides user-friendly interface Ensures fast feedback
Our product	Provides a dashboard that shows critical stock levels in a timely manner Works integrated with various systems such as production, maintenance, procurement

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### 3. Stakeholder Descriptions

#### 3.1 Stakeholder Summary

Name	Description	Responsibilities
Product Owner	The leader is responsible for maximizing the value of the product created by the team.	Defines the vision, prioritizing needs, anticipating client needs, evaluates product progress at each iteration.
Analyst	Works with the stakeholders to translate needs into requirements.	Knowledge transfer to developers, verification of solutions, requirement gathering, software documentation preparations.
Software Architect	Highly experienced developers who design software solutions from the ground up.	Creating high-level product specifications and design documents, Guiding and assisting the development team, resolving issues with code and design, ensures the code quality and cleanliness.
Project Manager	This stakeholder coaches the team to drive a successful outcome of the project.	Plans, manages and allocates resources, decides priorities, coordinates interactions with customer and users, and keeps the project team focused.
Software Engineer	This stakeholder translates requirements into code.	Understands the architecture and implements system requirements.
Software Test Engineer	This stakeholder identifies the tests that need to be performed and analyzes the results.	Implements and runs tests verify the test has been run and communicates test results to the team.
Quality Team	The quality team is responsible for conducting quality assurance activities.	Conduct activities that validate quality requirements and ensure creating quality deliverables.
End-user	End-user of the system.	Participating in user acceptance tests and validating the system.

#### 3.2 User Environment

The Stock Manager is involved in completing the task. Later on, a Procurement Specialist may be involved. The Task cycle is being repeated before each production. The amount of time spent depends on the size of the inventory. Since the system will be web-based, it is platform-independent. Chrome will be supported as a web browser. The constraint is the internet connection for the system. Inventory amounts are handled manually. Later on, an Order Management System may be integrated.

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## 4. Product Overview

### 4.1 Needs and Features

Need	Priority	Features	Planned Release
System User Management and log in	High	User registrations and logins	Release 1
Raw material definition	High	Define raw material	Release 1
Product definition	High	Define product	Release 1
Inventory bindings/mappings	High	Bind products with raw materials	Release 1
Creating stock request/demand	High	Define production demand to calculate the stock needs	Release 1
Updating stock levels	High	Reduce stock levels based on production request and update stock levels manually	Release 1
Inventory dashboard	Medium	It is the homepage of the application	Release 1
Receive alerts for under or overstocking items beyond a defined threshold	Medium	Stock notification	Release 2
Daily inventory status notifications via email	Low	Daily email notification	Release 2
Generates the report that contains inventory information	Low	Report generation	Release 2
Stock Forecasting	Low	Define estimated and upcoming production demand	Release 2
System User Role Management	Low	Defining user authorizations on the system	Release 2

## 5. Other Product Requirements

Requirement	Priority	Planned Release
User-friendly interface that provides quick access to common features or commands, easy to locate different tools and options and should require minimal explanation for how to use it.	High	Release 1
Compatibility with Chrome Web Browser at first release.	High	Release 1
User Manuals should be provided.	Medium	Release 2
Availability must be 2 nines which mean 99% service uptime and aim for downtime below 15 minutes per day.	Medium	Release 2