

# STOCK MAINTENANCE SYSTEM

## SOFTWARE REQUIREMENTS SPECIFICATION

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#### FOR STOCK MAINTENANCE SYSTEM

#### 1. Introduction:

1.1 Purpose of this document: This document outlines the software requirements for SMS. It serves as a guide for the design and development teams, and supports communication between stakeholders.

1.2 Scope of the document: This document covers the functional and non-functional requirements, it includes user interface, system functions and so on.

1.3 Overview: It is intended to automate and manage inventory control and stock management process.

#### 2. Description:

2.1 User Objectives: It includes inventory managers, warehouse staffs, sales personnel for various maintenance and management.

2.2 User characteristics: All types of managers, staffs should have good experience in managing those staffs.

#### 2.3 Features:

- Realtime Inventory tracking, order management, Warehouse management, suppliers and customer portals.

#### 2.4 System Benefits:

- Optimized stock levels, improved order fulfillment, data-driven decision making.

#### 3. Functional Requirements:

- Inventory Management: Adding new stock items, defining details, description and so on.

- Order Management: Creation of purchase and quantities, prices, delivery dates.

4. Interface Requirement: Provides web-based or accessible through both desktop and mobile.

#### 5. Performance Requirement:

5.1 Booking processing speed

5.2 System availability

5.3 Reliability

## 6. Design Constraints :

- 6.1. Developed using modern OOP language, the architecture should adhere to the principles of OOPS.

## 7. Non-Functional Attributes :

- Security
- Usability
- Reliability
- Maintainability

## 8. Preliminary Schedule and Budget :

8.1 Schedule : The project is estimated to take 5 months ;

- Requirement gathering (2 weeks)
- Design Phase (1 month)
- Development Phase (2 months)
- Testing Phase (1 month)
- Deployment and training (2 weeks)
- Post-deployment support (2 weeks)

8.2 Budget : Total estimated budget is \$30,000 ;

◦ Requirement gathering : \$5,000

◦ Design Phase : \$7,000

◦ Development Phase : \$10,000

◦ Testing Phase : \$4,000

◦ Deployment and training : \$2,000

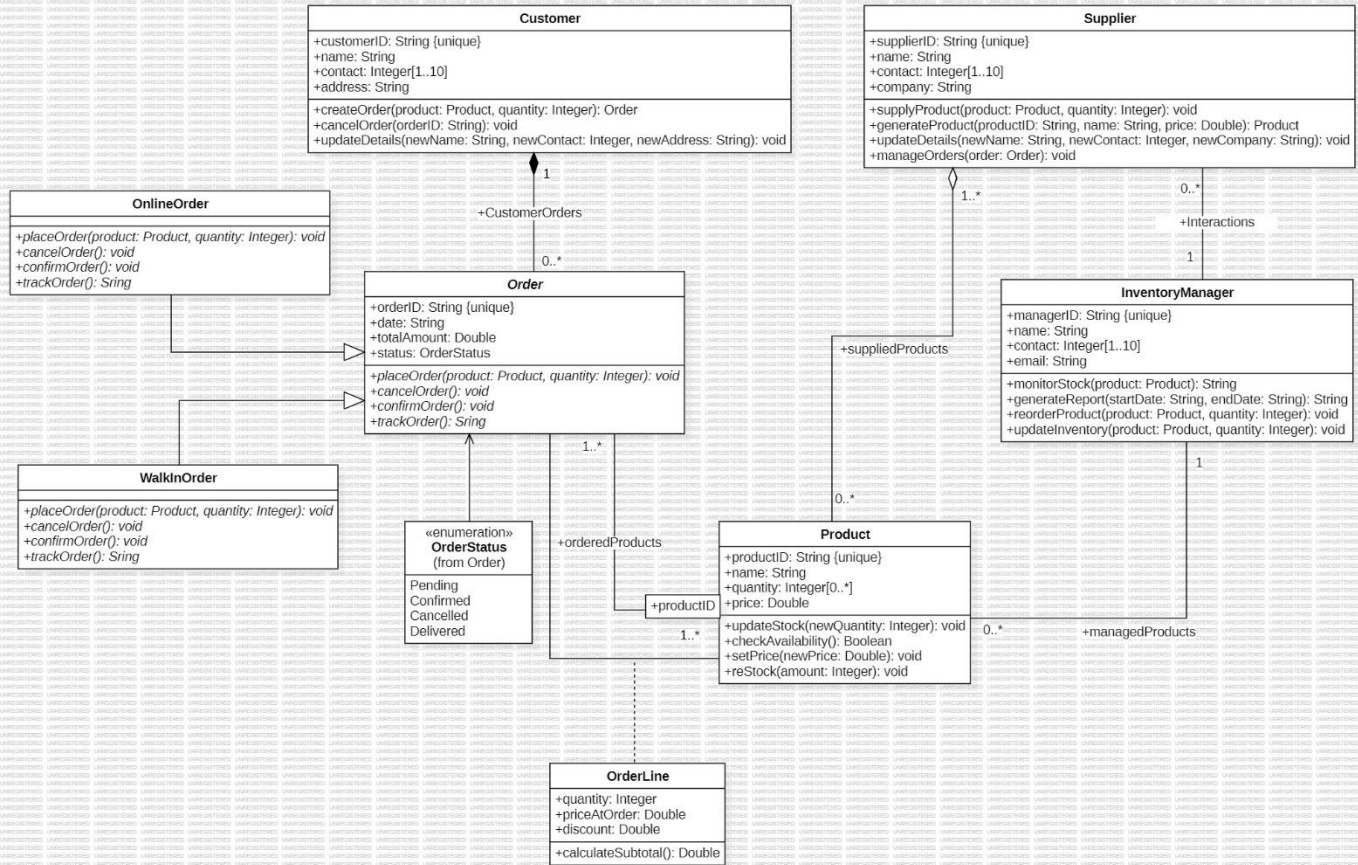
◦ Post-deployment support : \$2,000



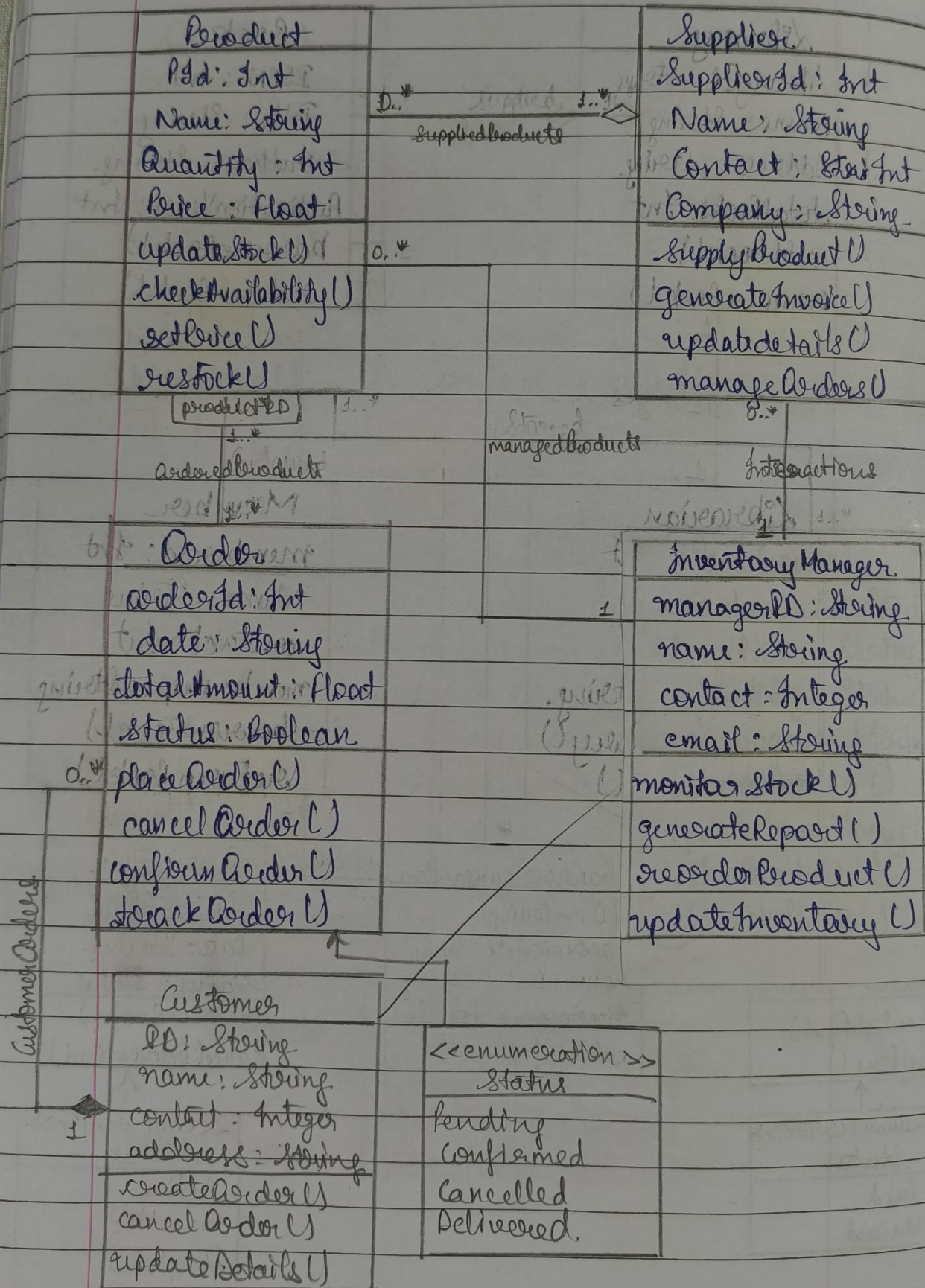
# UML DIAGRAMS

## CLASS DIAGRAM

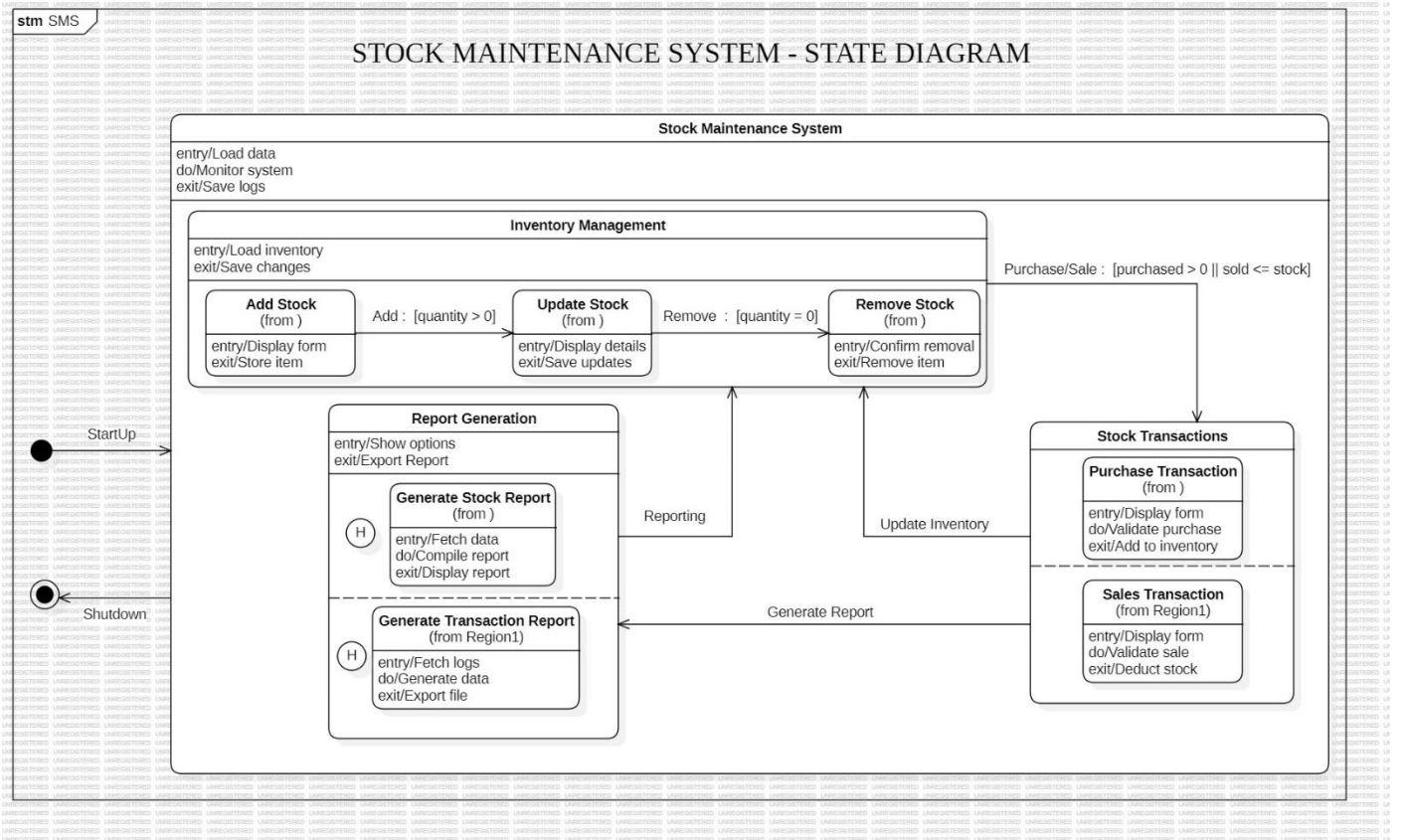
STOCK MAINTENANCE SYSTEM - CLASS DIAGRAM



# M3P24: STOCK MAINTENANCE SYSTEM



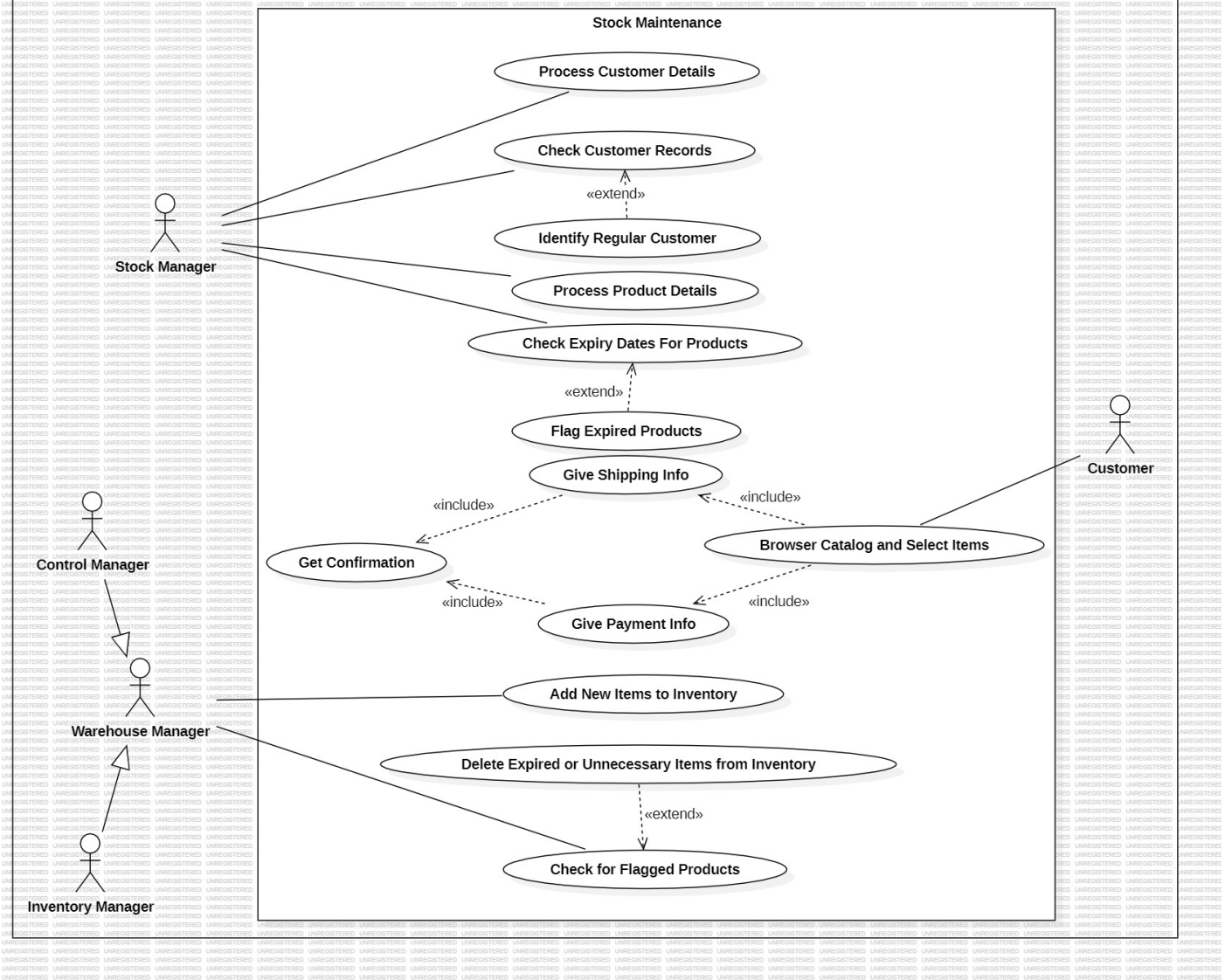
## STATE DIAGRAM



# USE CASE DIAGRAM

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## STOCK MAINTANENCE SYSTEM USE CASE DIAGRAM



## SEQUENCE DIAGRAM

## ACTIVITY DIAGRAM