

STOCK MAINTENANCE SYSTEM

SOFTWARE REQUIREMENTS SPECIFICATION

1.1 Software Requirements Specifications FOR STOCK MAINTENANCE SYSTEM		Date: 1/1 Page: _____
1. Introduction:		2.3 Features: <ul style="list-style-type: none">Realtime Inventory tracking, order management, Warehouse management, suppliers and customer portals.
3.1 Purpose of this document : This document outline the software requirements for Sms. It serves as a guide for the design and development teams, and supports communication between stakeholders.		2.4 System Benefits: <ul style="list-style-type: none">Optimized stock levels. Improved order fulfillment, data-driven decision making
3.2 Scope of the document : This document covers the functional and non-functional requirements, it include user interface, system functions and so on.		3. Functional Requirements: <ul style="list-style-type: none">Inventary Management : Adding new stock items, defining details, description and so on.Order Management : Creation of purchase and quantities, prices, delivery dates.
3.3 Overview : Is intended to automate and manage inventory control and stock management process.		4. Interface Requirement : Provides web-based UI accessible through both desktop and mobile.
2. Description :		5. Performance Requirement: <ul style="list-style-type: none">Booking processing speedSystem availabilityReliability
2.1 User Objectives : It includes inventory manager, warehouse staffs, sales personnel for various maintenance and management.		5.1 Booking processing speed
2.2 User characteristics : All types of manager, staffs should have good experience in managing those stuffs.		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

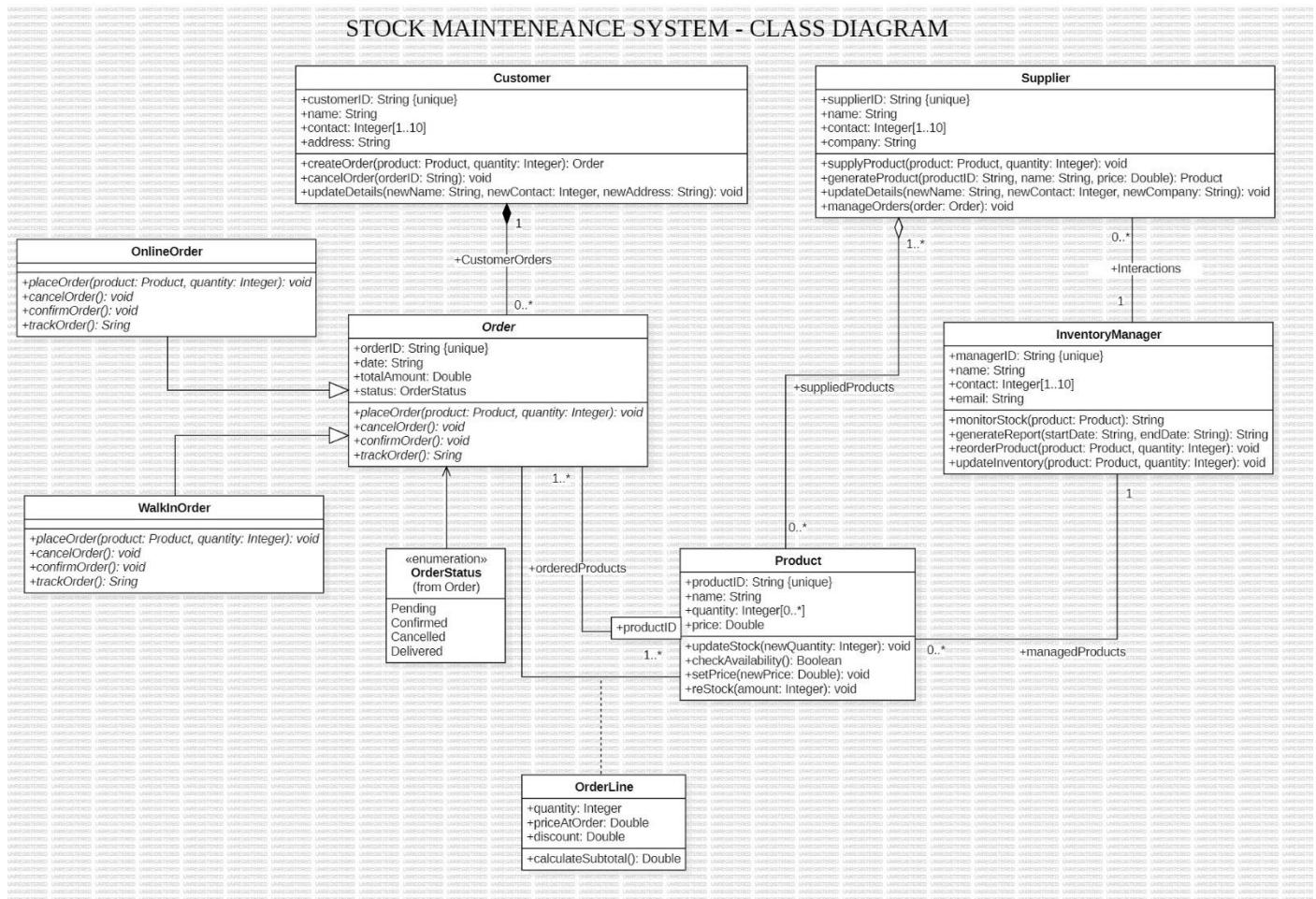
◦ Testing Phase : \$4,000

◦ Deployment and training : \$2000

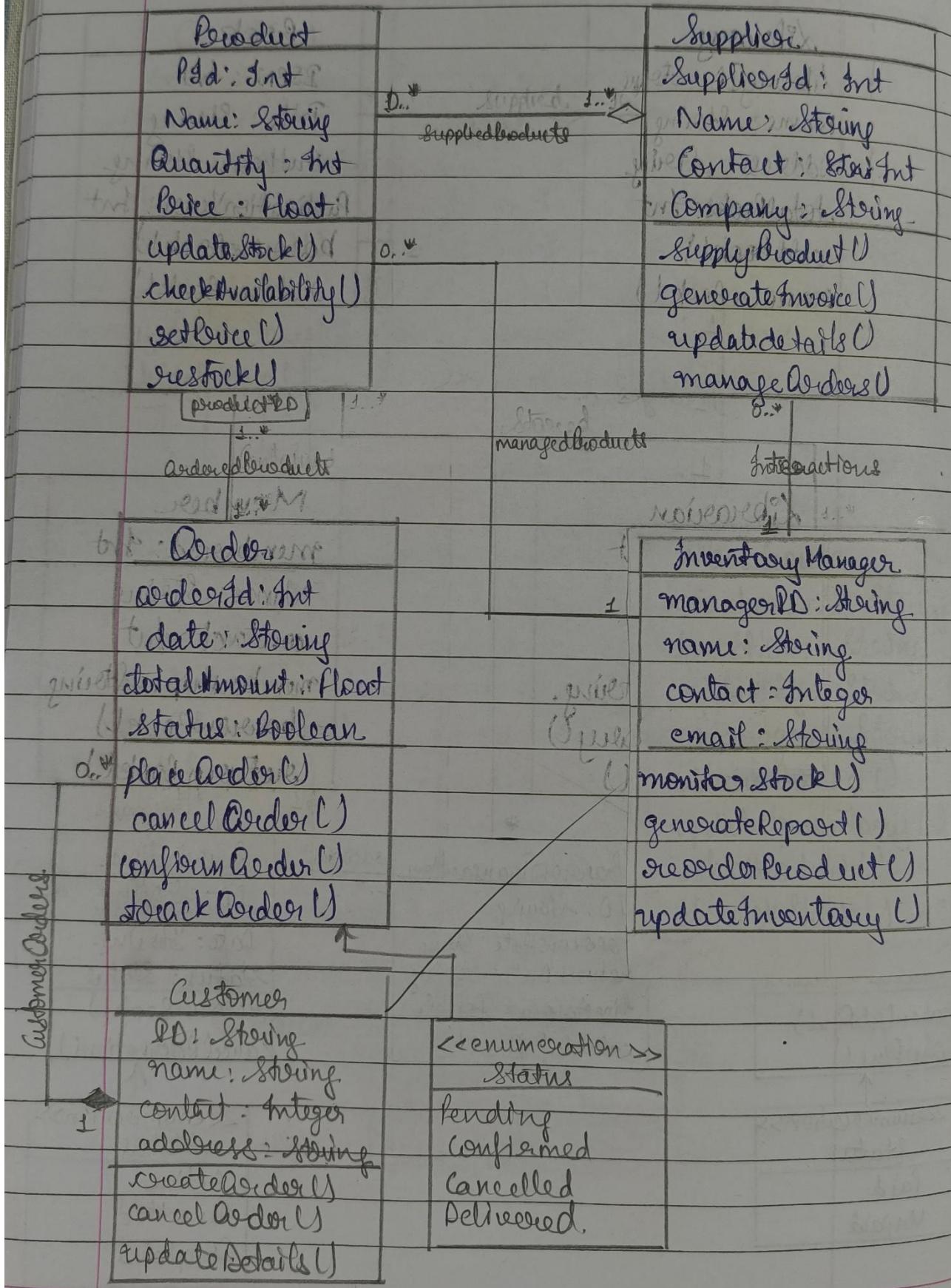
◦ Post-deployment support : \$2000

UML DIAGRAMS

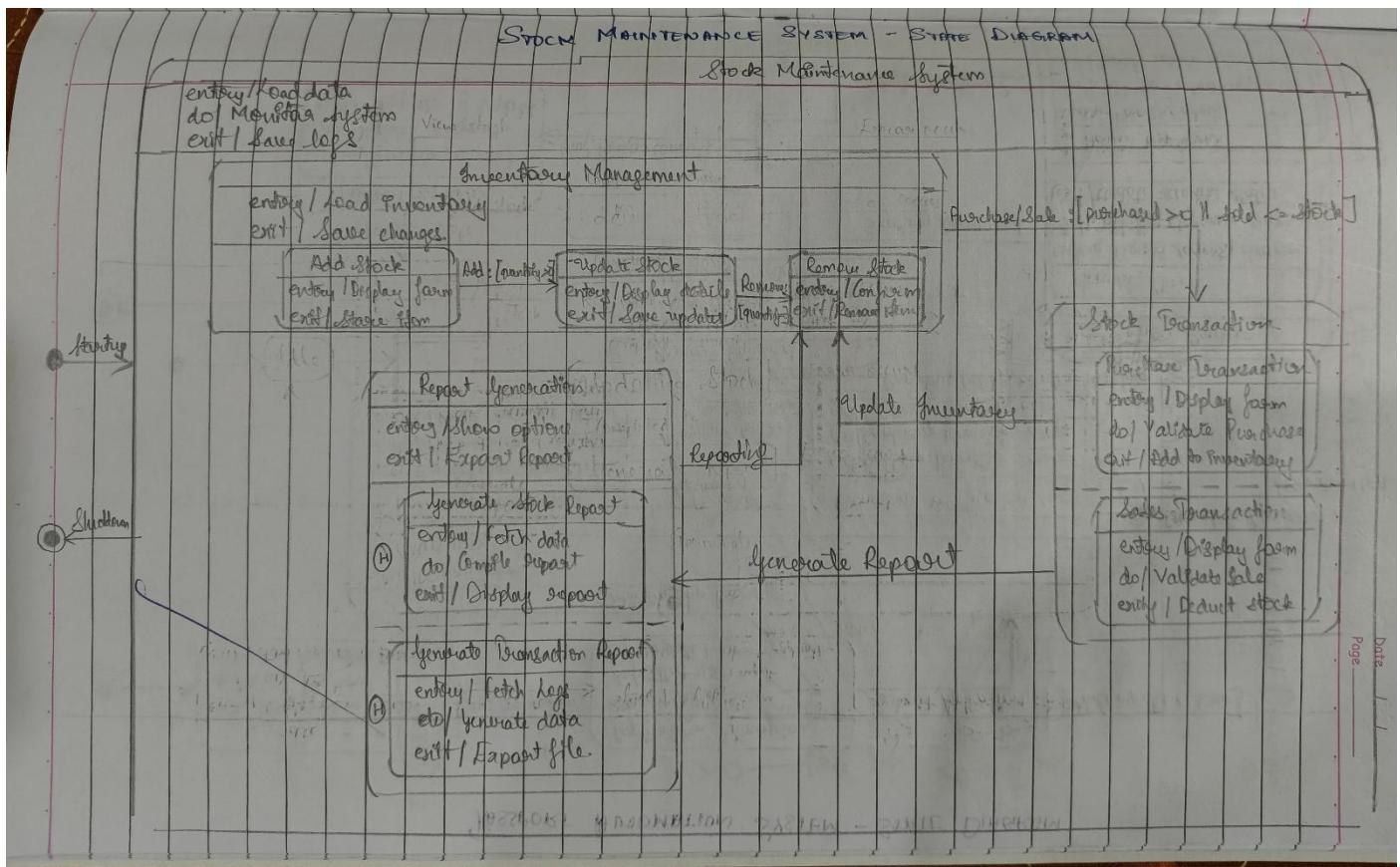
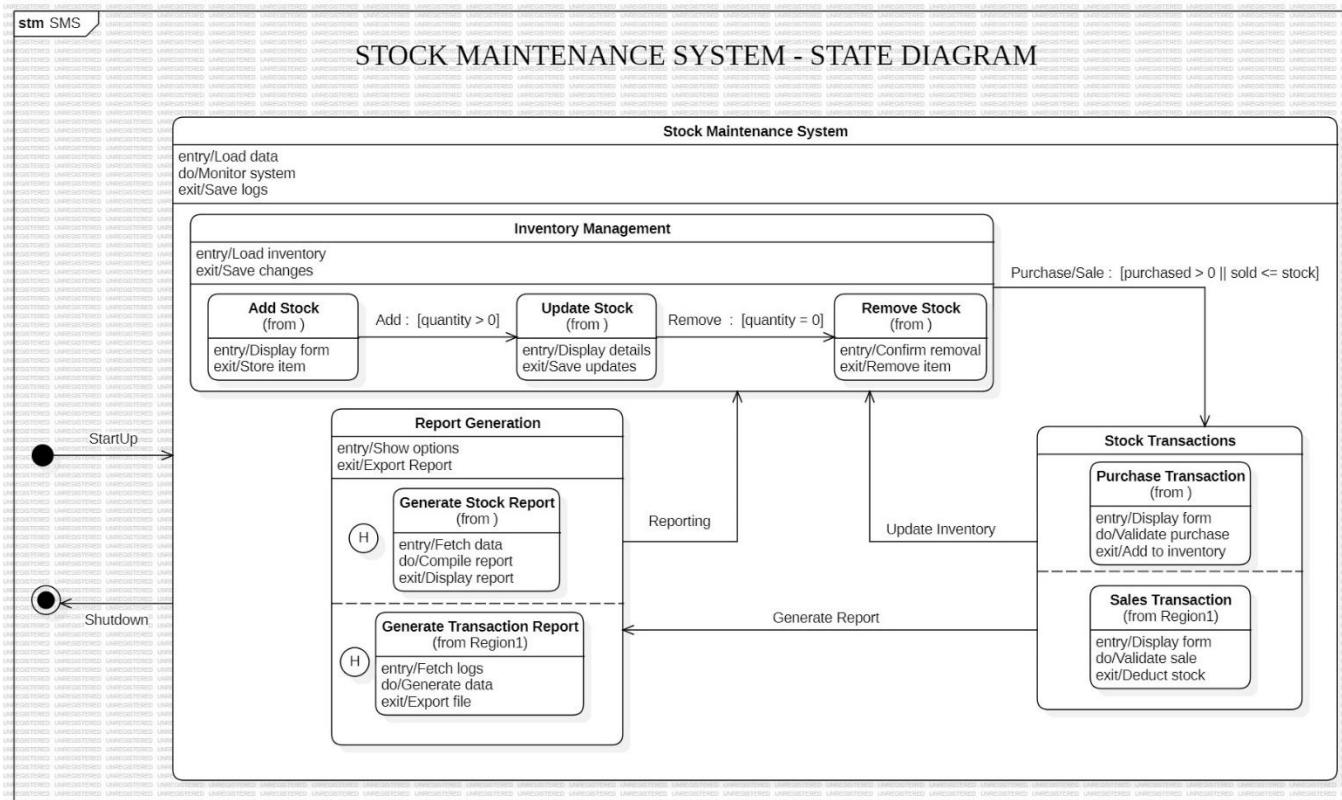
CLASS DIAGRAM



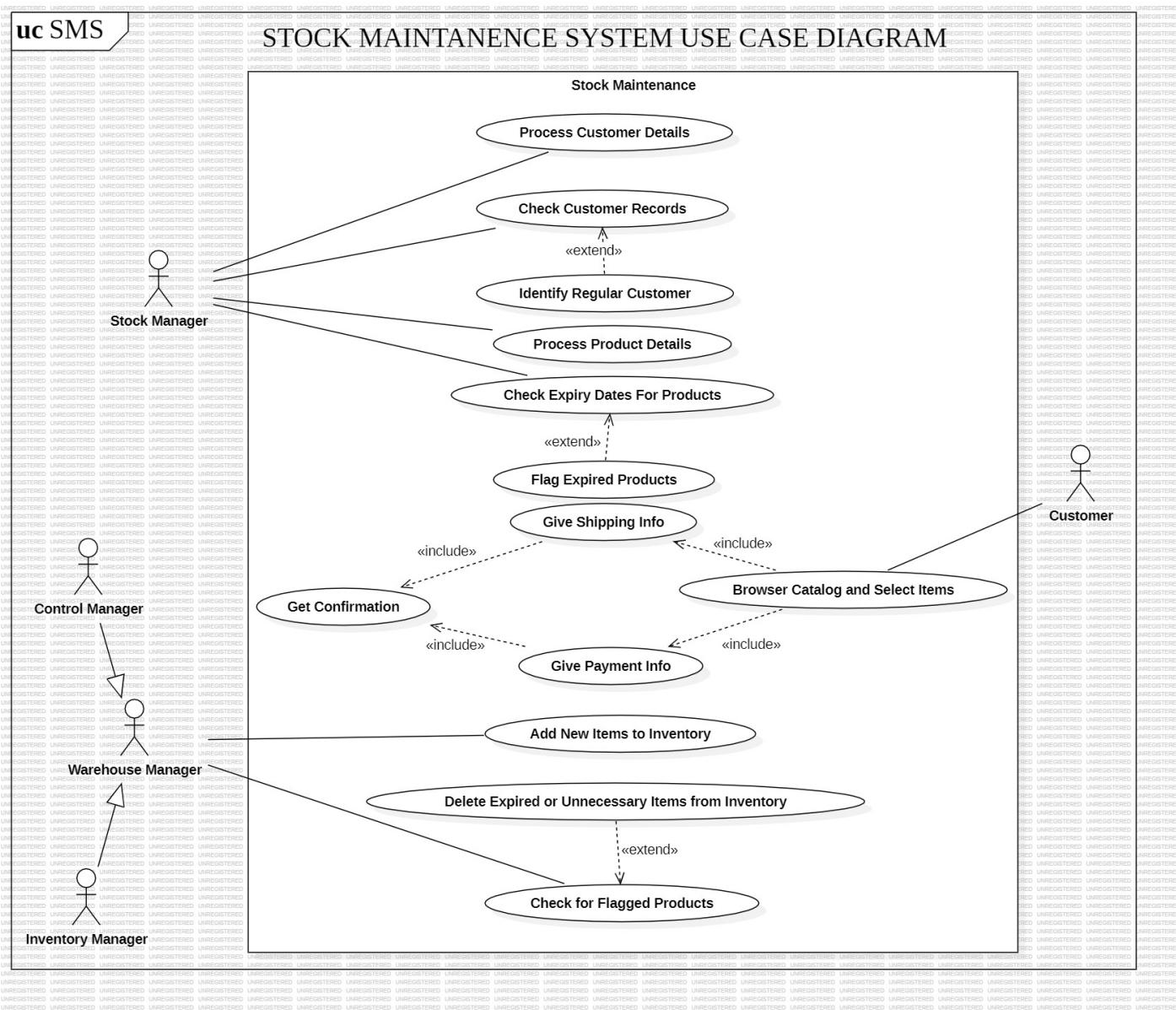
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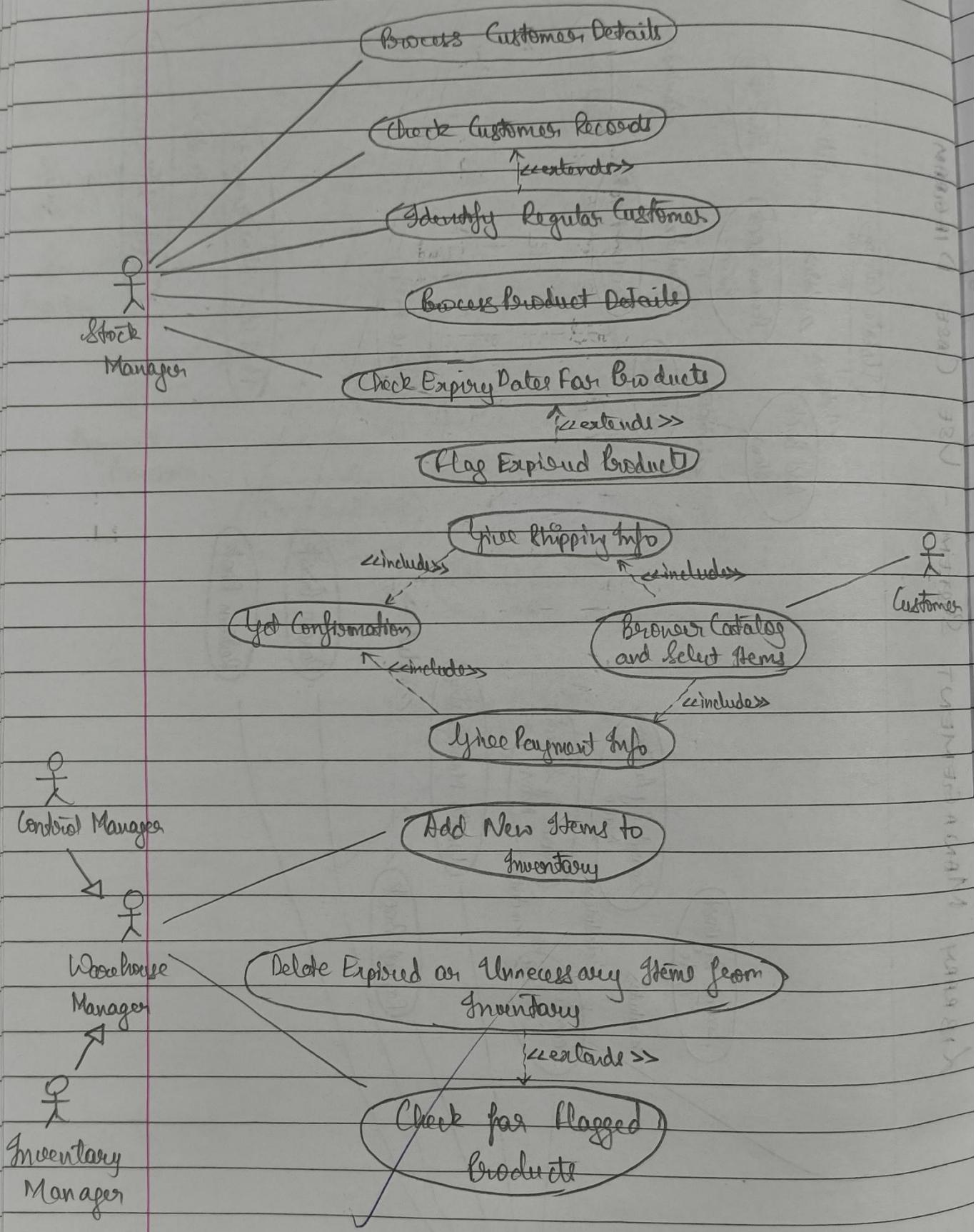
STATE DIAGRAM



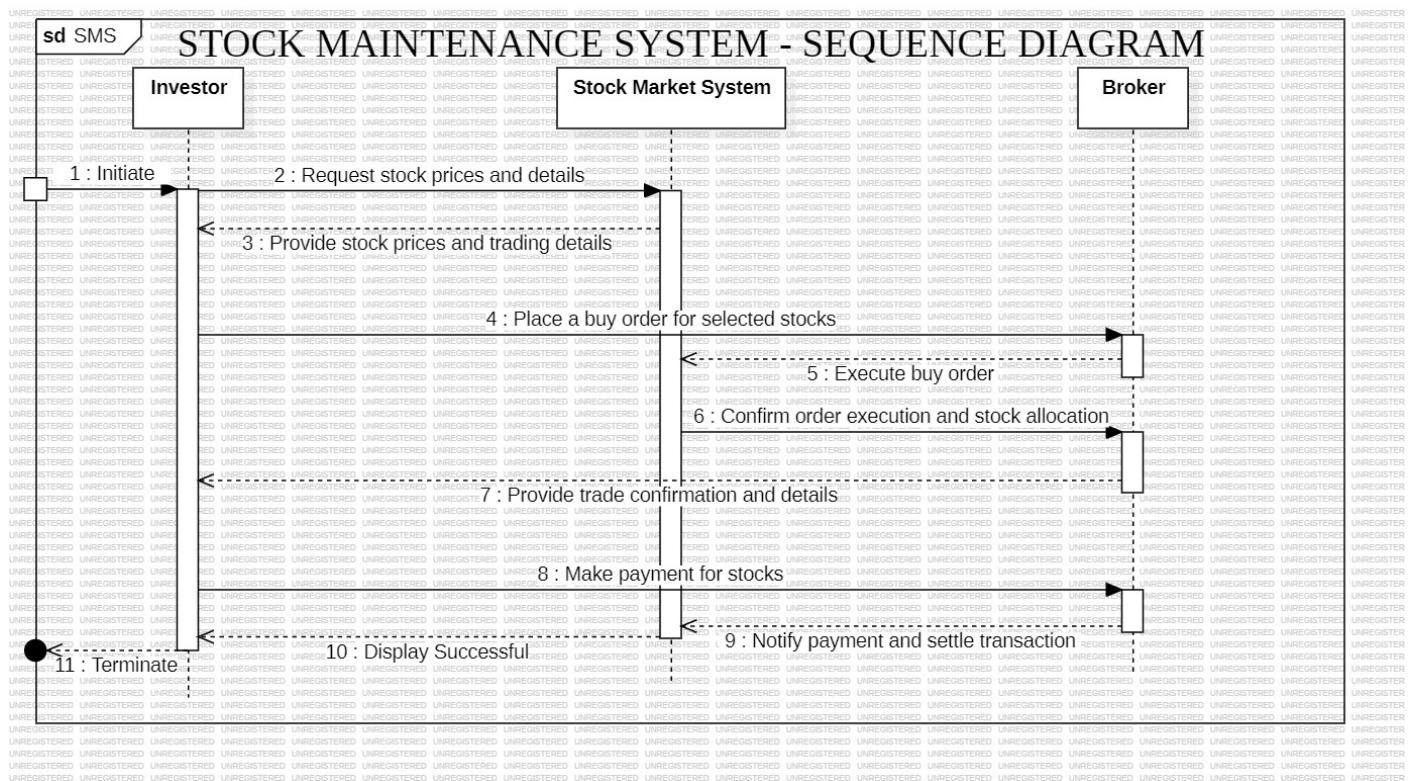
USE CASE DIAGRAM



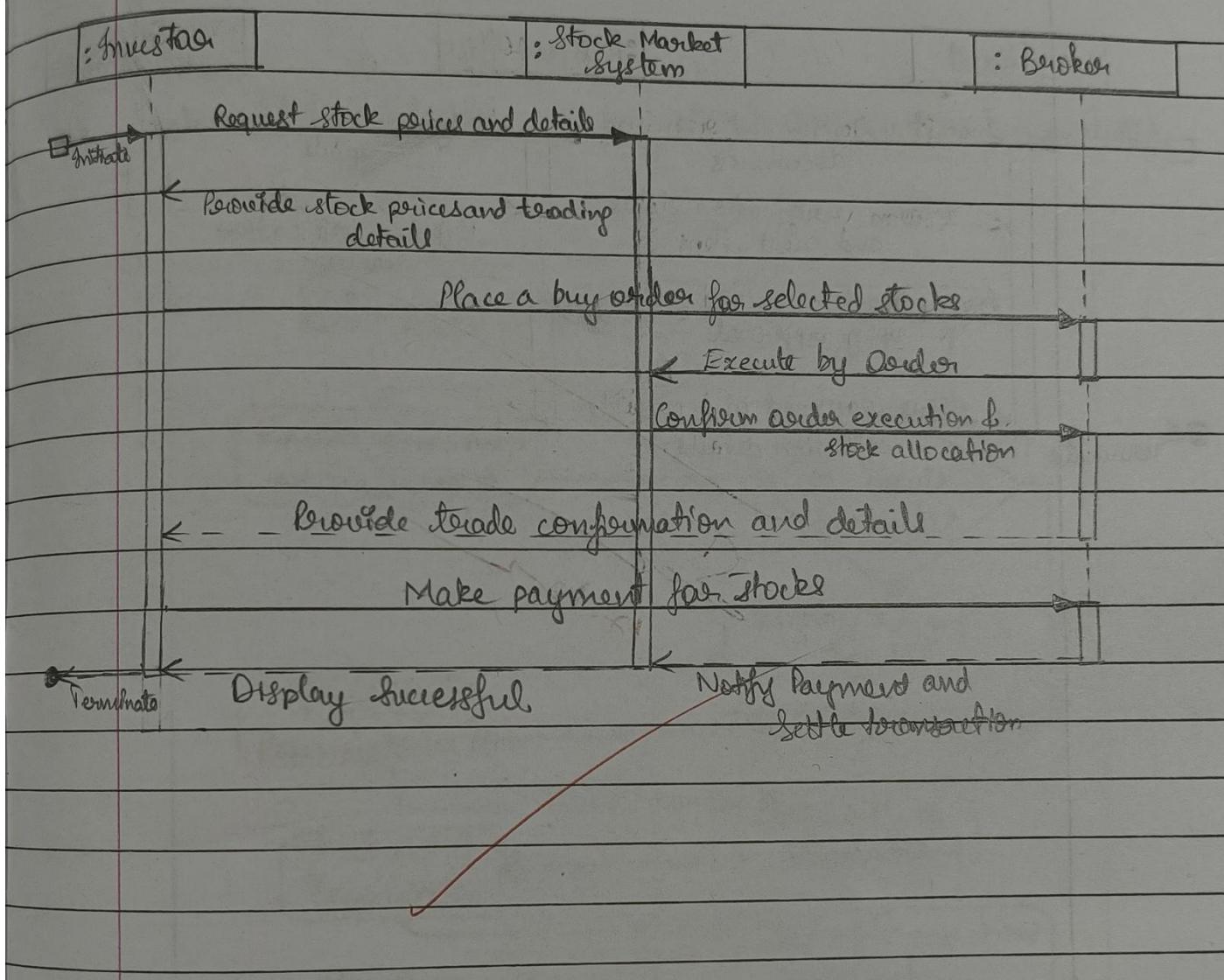
Stock Maintenance System - USE CASE DIAGRAM



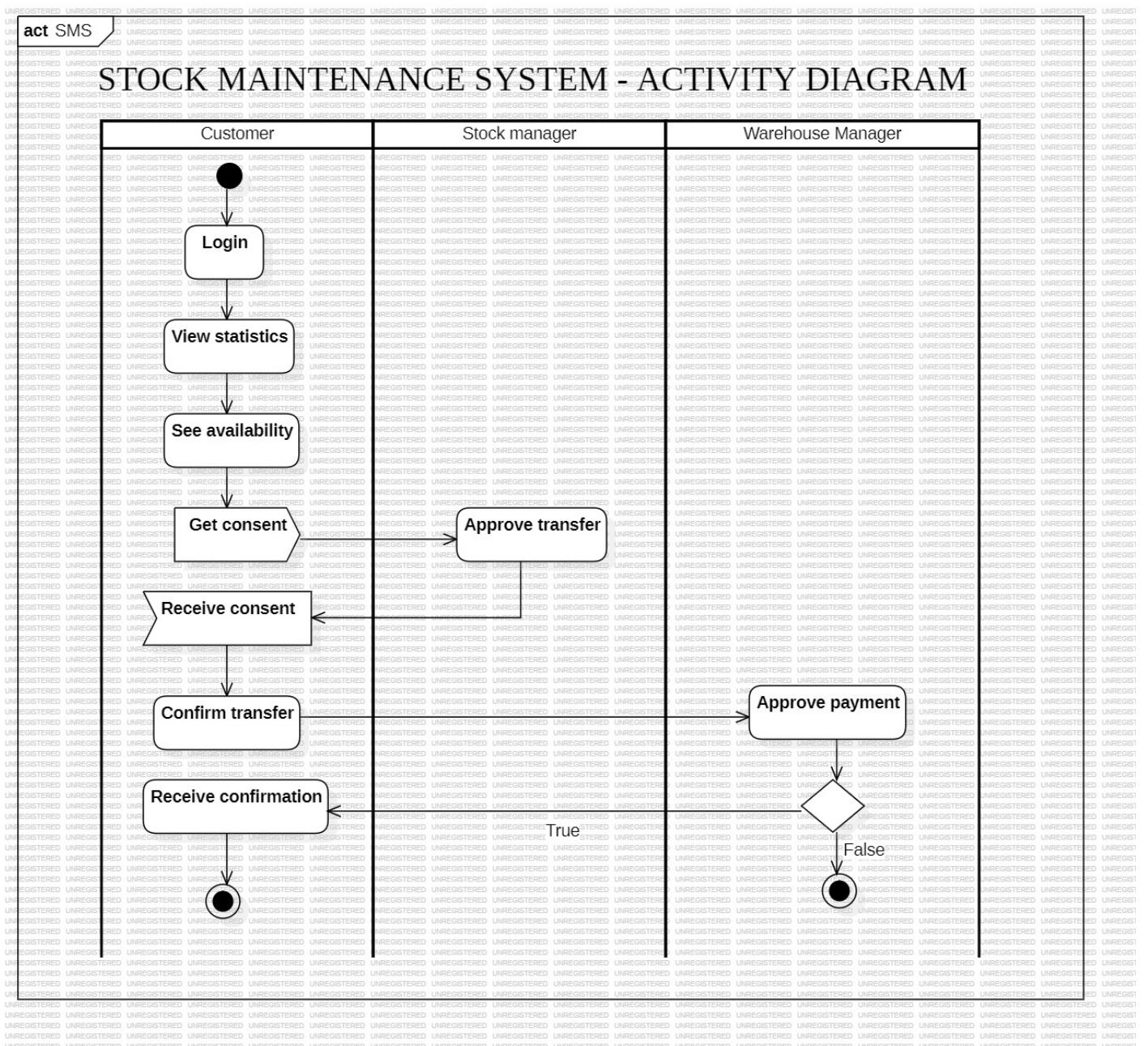
SEQUENCE DIAGRAM



STOCK MAINTENANCE SYSTEM - SEQUENCE DIAGRAM



ACTIVITY DIAGRAM



STOCK MAINTENANCE SYSTEM ACTIVITY DIAGRAM

