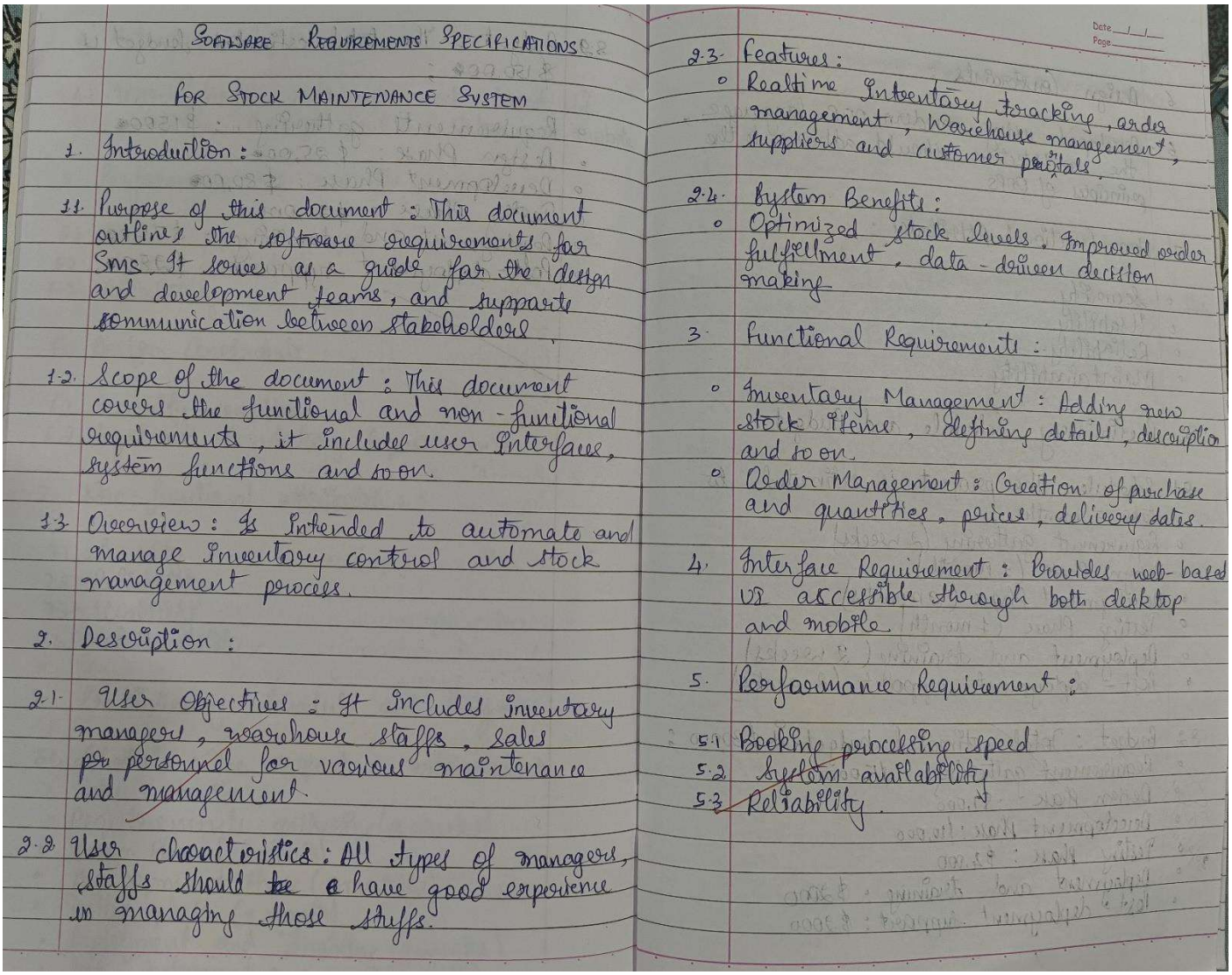
STOCK MAINTENANCE SYSTEM

SOFTWARE REQUIREMENTS SPECIFICATION



SOFTWARE REQUIREMENTS SPECIFICATIONS

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 interfaces, system functions and so on.

1.3. Overview : It 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 stuffs.

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 UI 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 : $2000
- Post-deployment support : $2000

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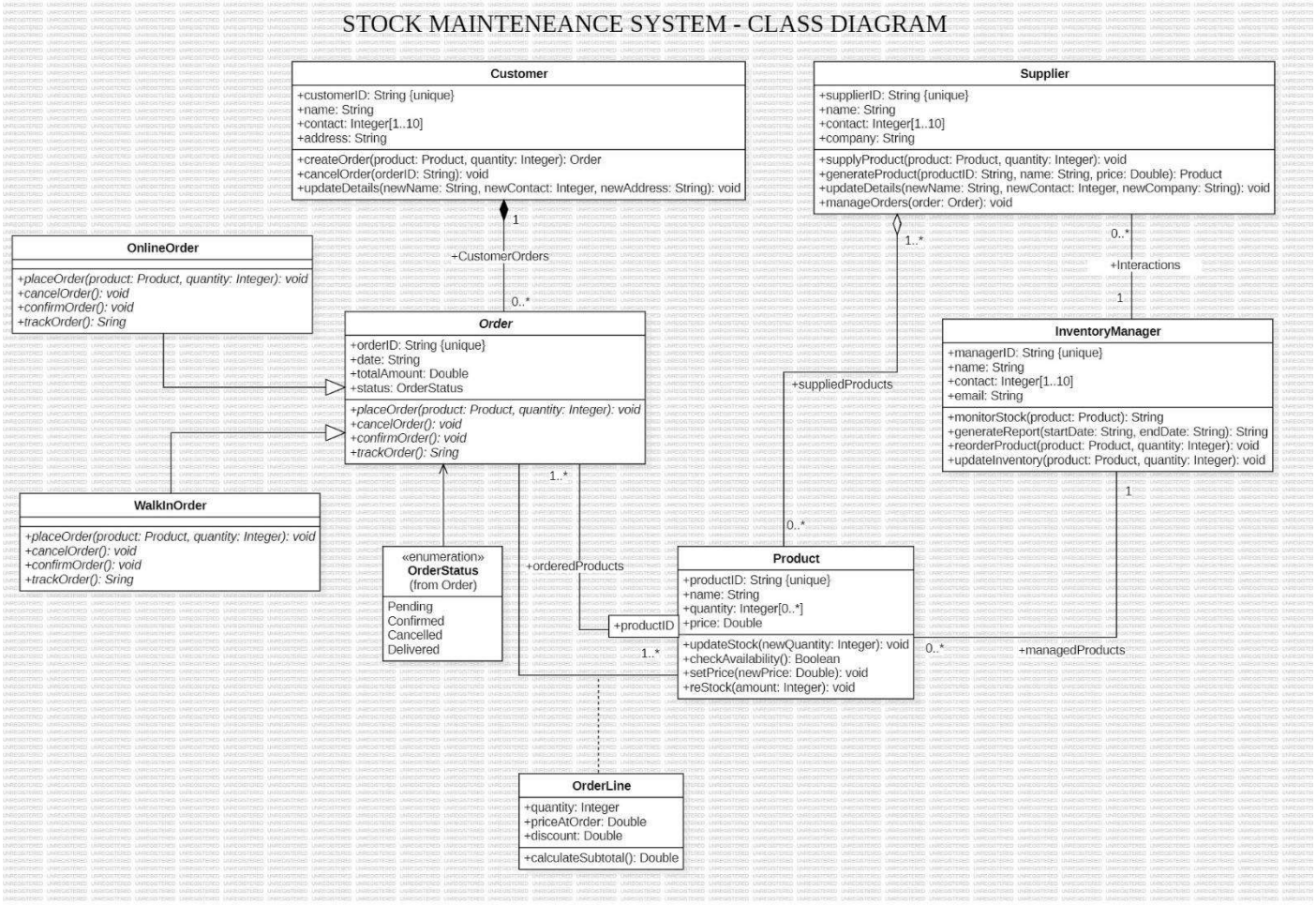
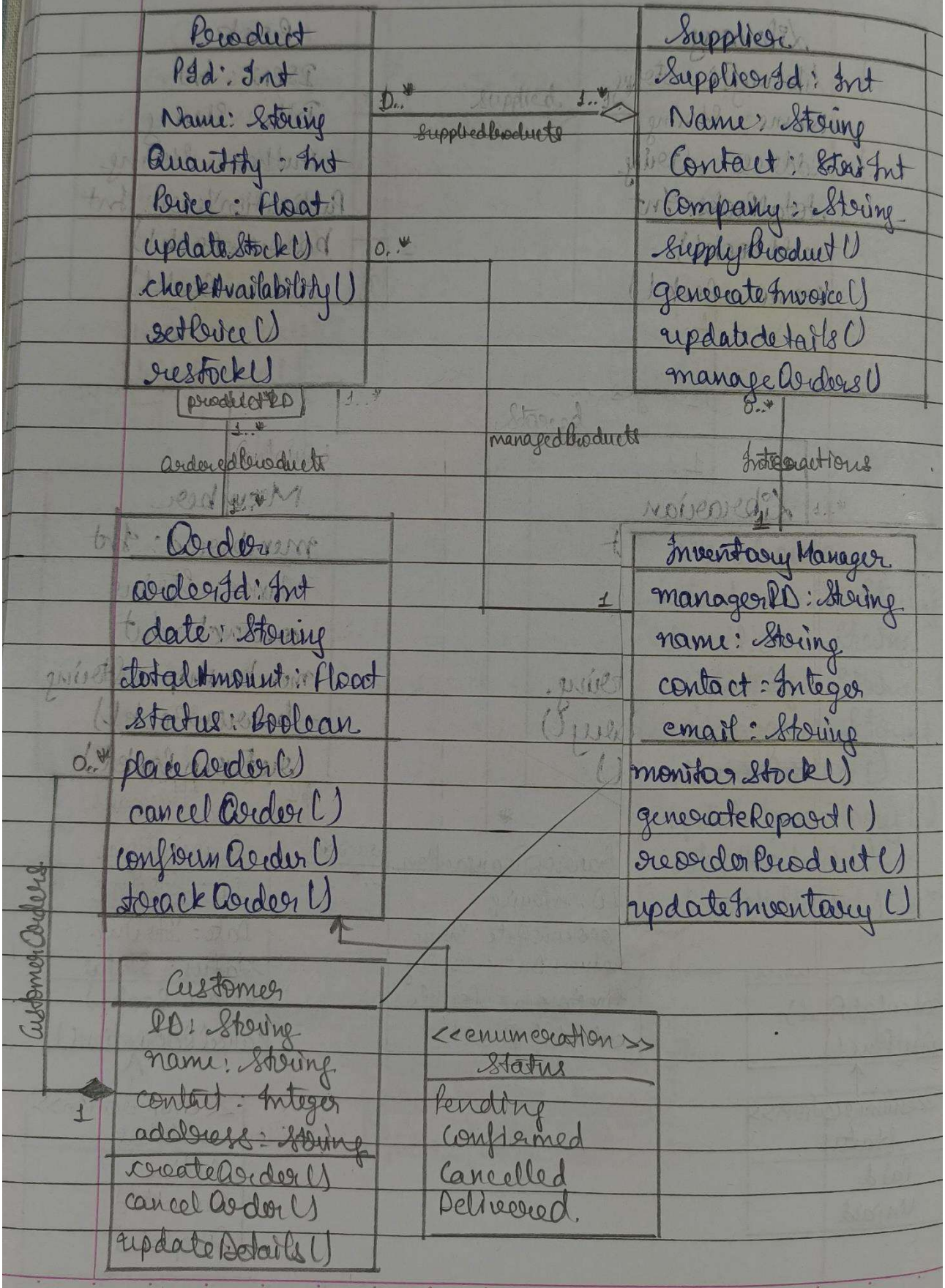
UML DIAGRAMS

CLASS DIAGRAM



4. Stock Maintenance System