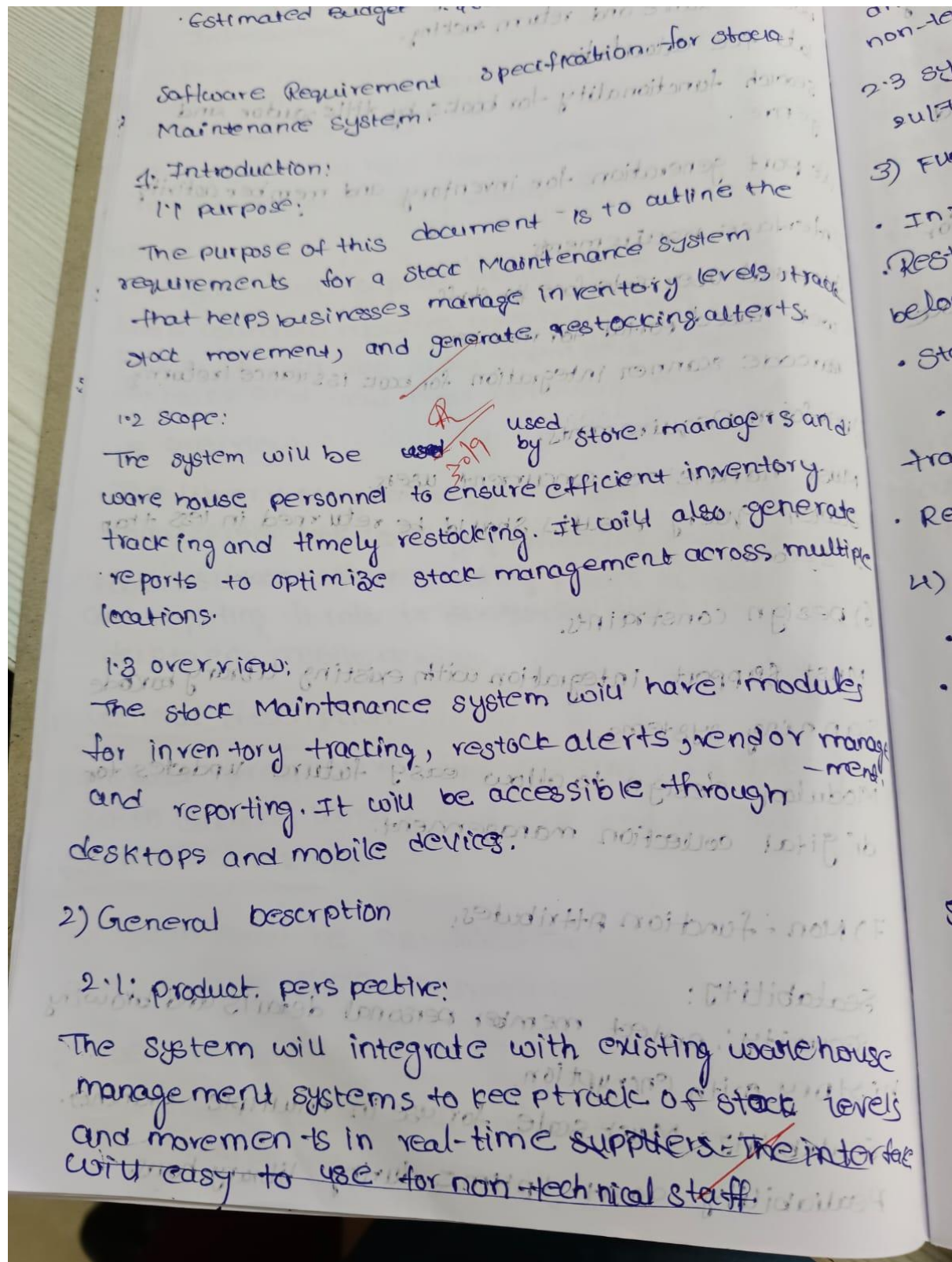


4. STOCK MAINTANANCE SYSTEM:

GENERATING SRS DOCUMENT:



3.2 user characteristics:

users will include warehouse staff, store managers and suppliers. The interface will be easy to use for non-technical staff.

3.3 system constraints: The system should be operational 24/7 and handle inventory across multiple locations.

3) Functional Requirements:

- Inventory tracking by Item, SKU, and location.
- Restocking notifications when inventory falls below threshold levels.
- Stock movement logging. (inbound/outbound)

• vendor management for ordering and supply tracking.

- Reporting on stock levels, turnover, and shortages.

4) Interface requirements:

- web-based interface for store managers.
- Integration with barcode scanners for stock movement.
- API for integration with third-party warehouse systems.

5) Performance Requirements:

- Must handle 10,000 SKU entries.

- Must process stock movement transactions in under 2 seconds.

6) design constraints:

- Must comply with the company's hardware infrastructure.
- designed for easy integration with third-party.

7) Non-Functional Attributes:

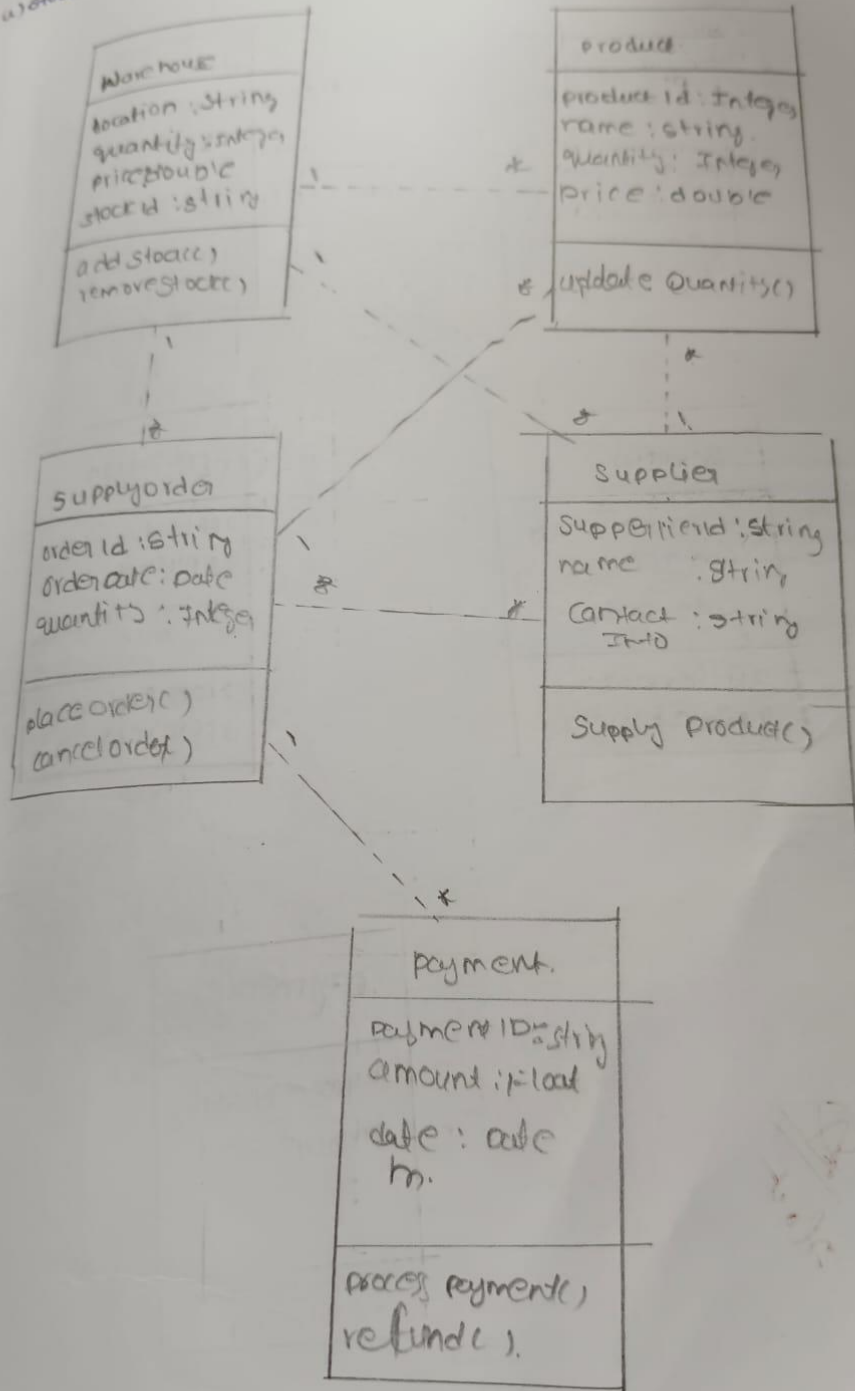
- security: Ensure data security and restricted access to inventory data.
- scalability: capable of managing inventories for multi-location ware houses.
- Reliability: 99.9% uptime to ensure consistent stock updates.

8. preliminary schedule and budget.

- Development time: 7 months.
- Estimated Budget: \$150,000.

CLASS DIAGRAM:

Warehouse Maintenance System



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CLASS DIAGRAM STAR UML:

