4. Stock Maintenance system

a. SRS Document:

Stock maintainance system:

1. Introduction:
   1.1. Purpose of this document is to provide description about stock management system.
   1.2 Scope of this document: The document provides description and explanation of the working of the system.
   1.3. Overview:
   The system keeps track of the incoming and outgoing stock with exping date.

2. General Description:
The system should keep track of monthly incoming and outgoing of the stock, With Batch ID, from address, to address, and Quantity.
The system should generate a real time update on its information like Dispatched, packed, delivered.

3. Functional requirements:
   → Details should be documented accurately
   → The query system must retreive precentage increase in the stocks, present price, GMP and the remarks of the relationship manager must be displayed to the right.

4. Interface Requirement:
The details of the query system must be displayed as playcards for each stock and must be changing every seconds.

5. Performance Requirement:
The details of the stock from the exchange must have the query system must have a responce time of 0.1 milli seconds. It must operate on 200 GB memory and must have minimal error rate.

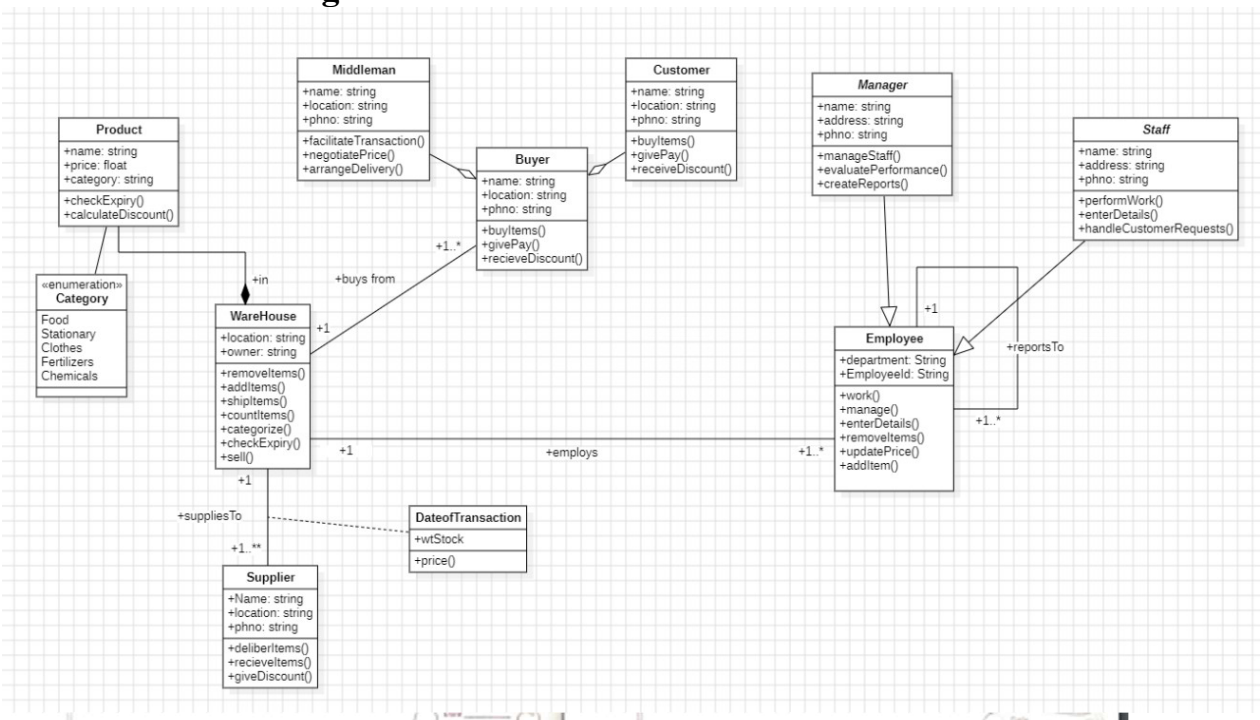
6. Design Constraints:
It must use hashmaps and must have an O(n) time search sequence. it must be able to run on old systems.

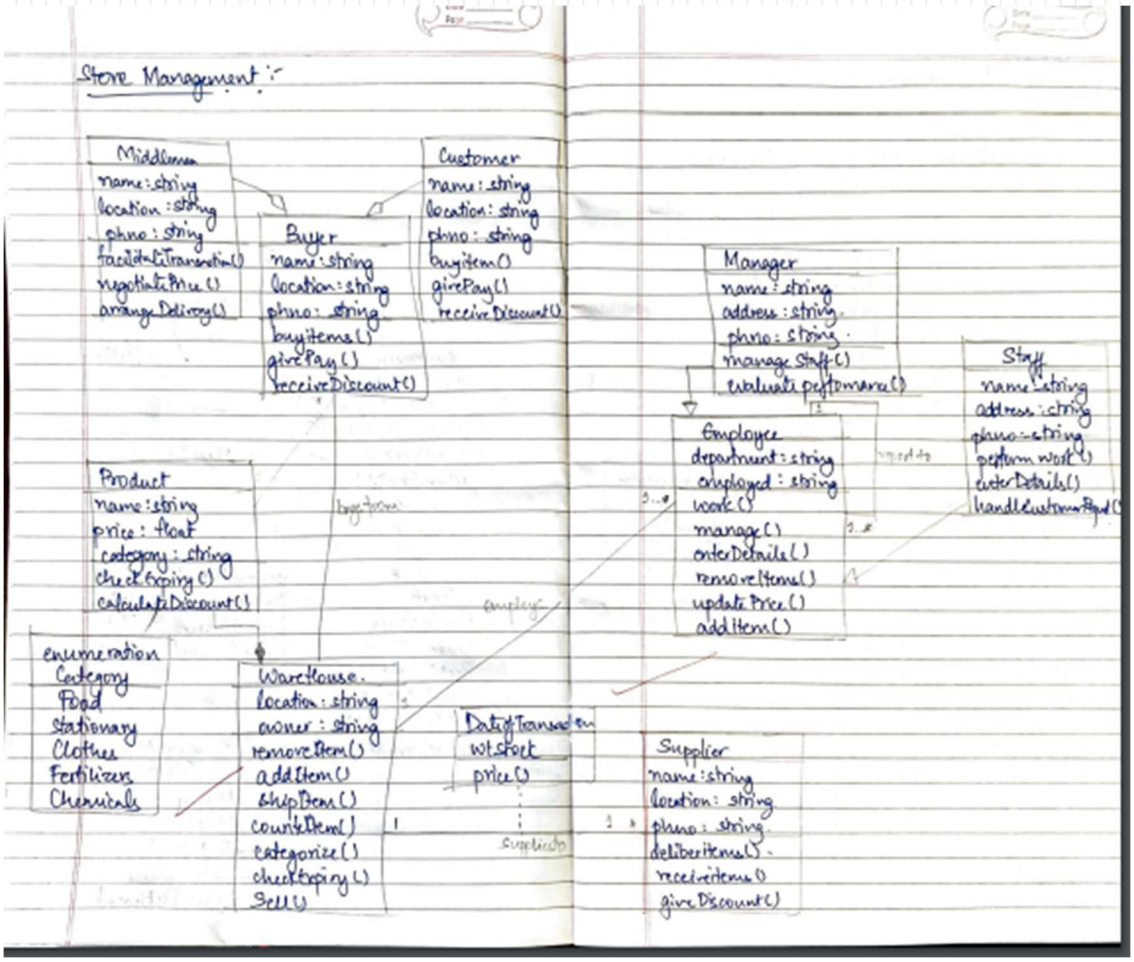
7. Non-functional attributes:
It must use elgamal encryption to transfer the details of the system from relationship manage and user.

8. Prilimiary Schedule and Budget:-
Requirement Analysis: 2 weeks.
System Design: 4 weeks
Development: 8 weeks
Testing: 4 weeks.
Deployment: 2 weeks.
Total: 20 weeks.

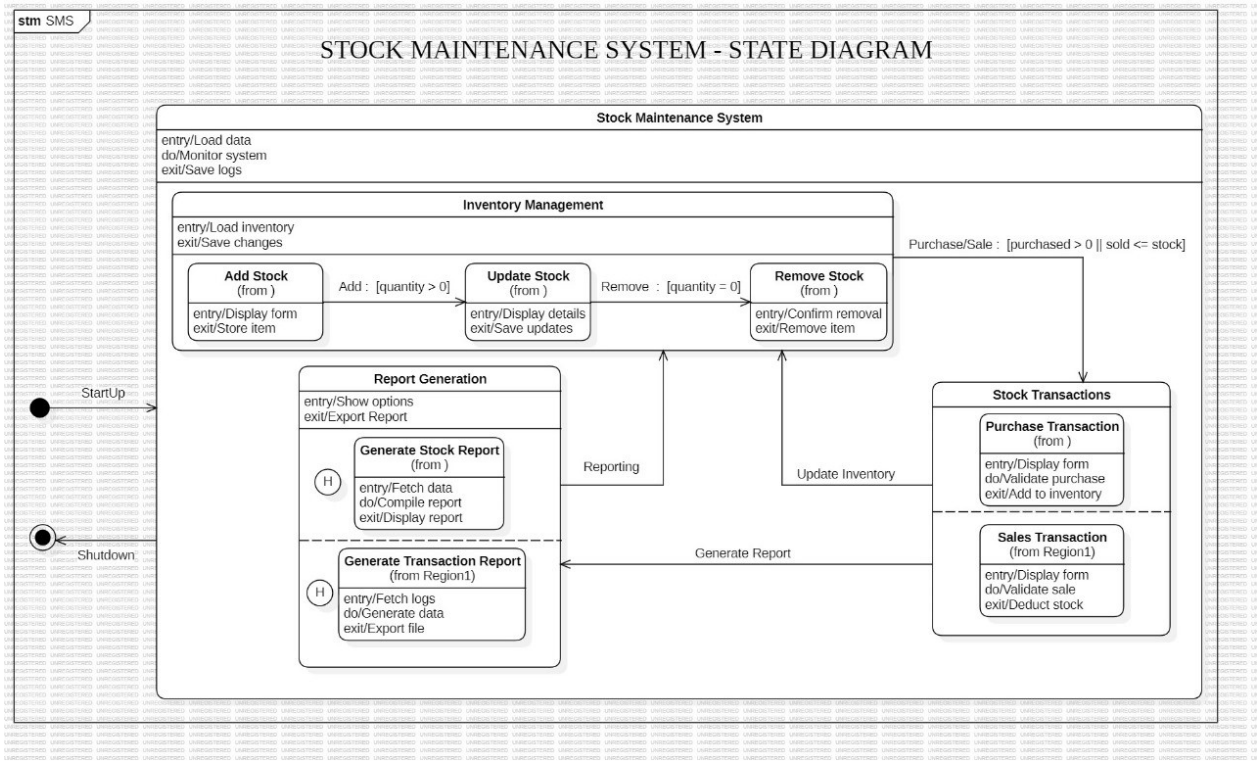
Budget: Software Development: $30,000
Hardware Development: $15,000
Software Licence: $5000
Testing: $10,000
Management: $5000
Total: $65000

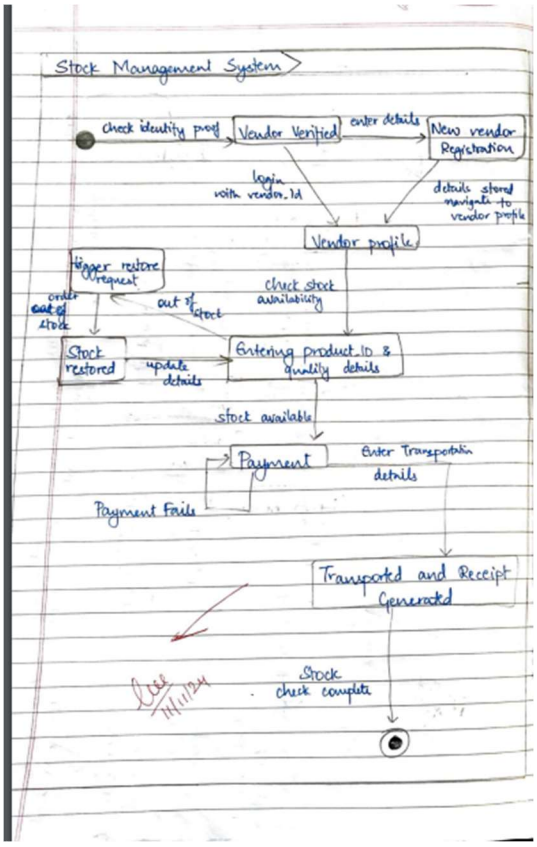
b. Advanced Class Diagram:



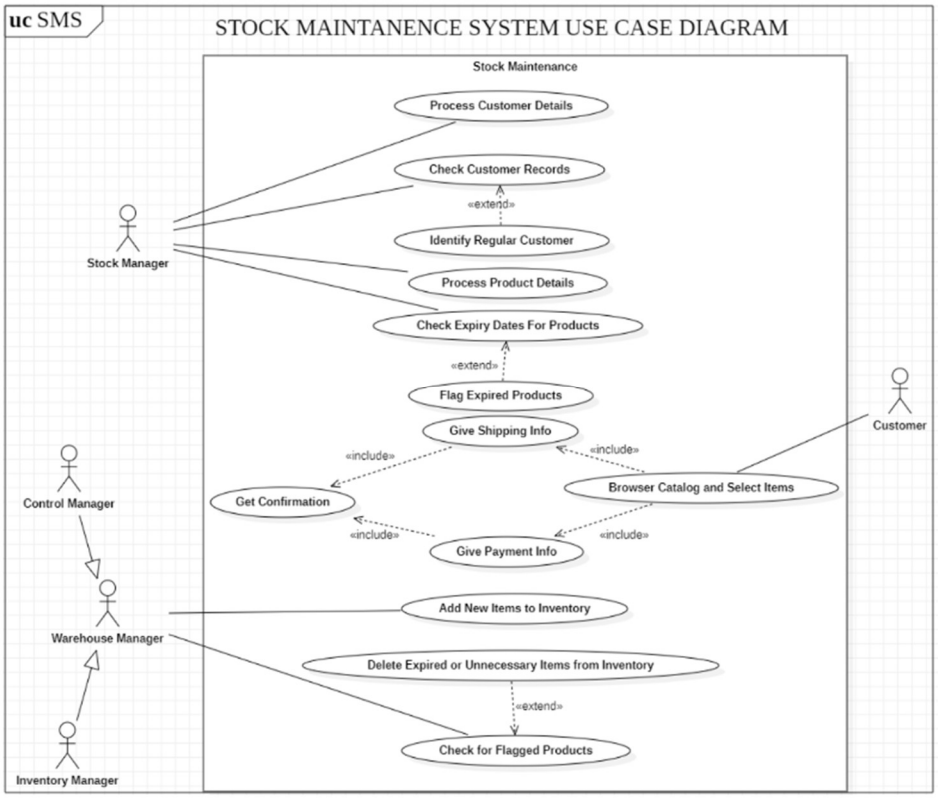


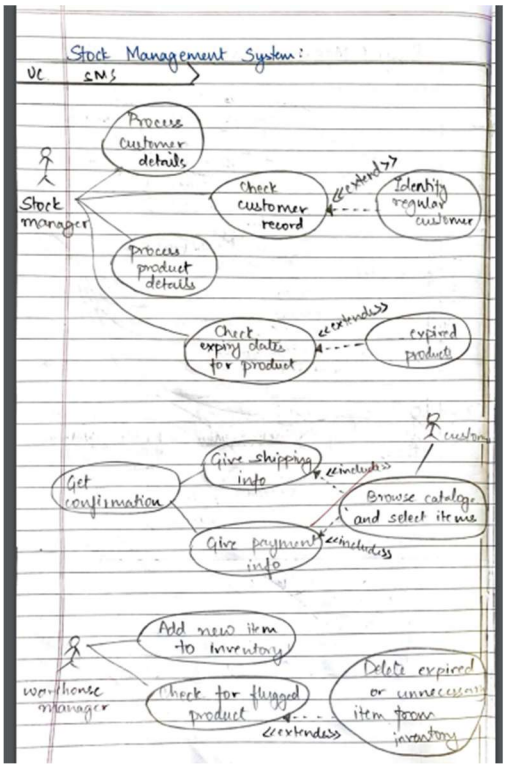
c. Advanced State Diagram:



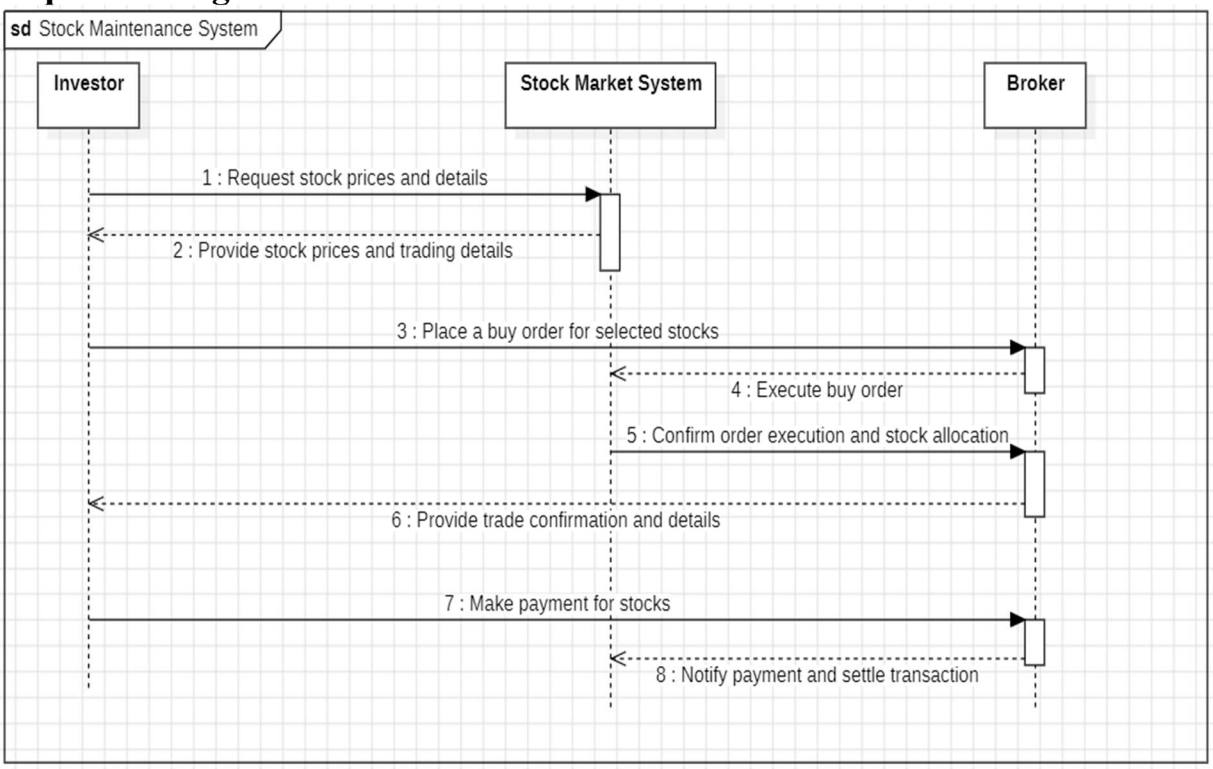


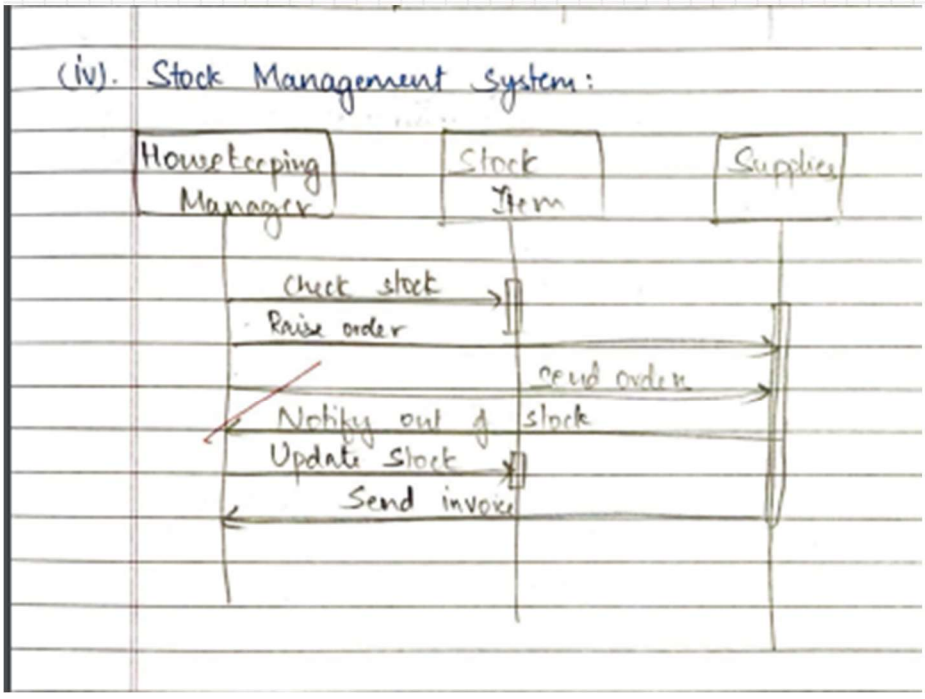
d. Use Case Diagram:





e. Sequence Diagram:





f. Activity Diagram: