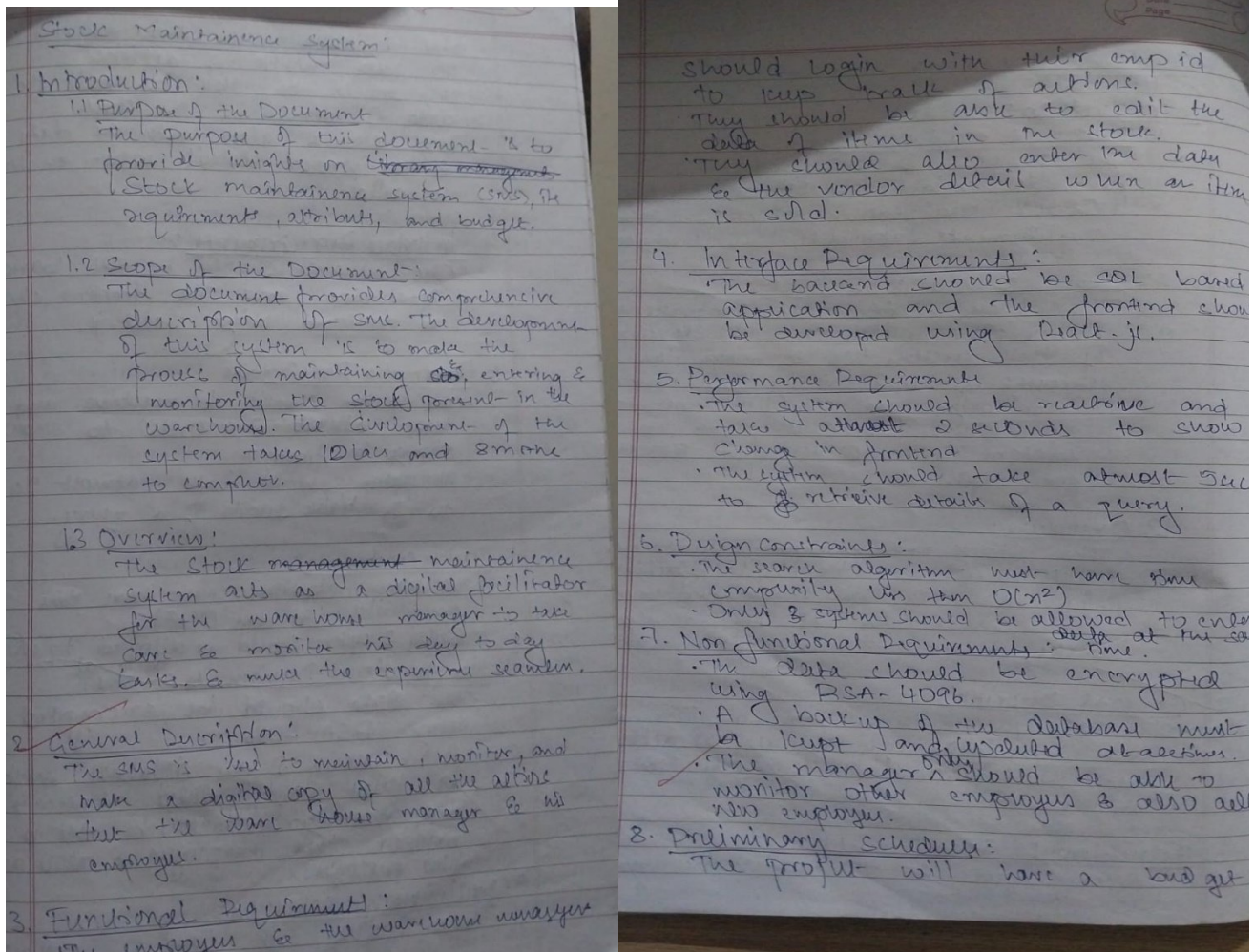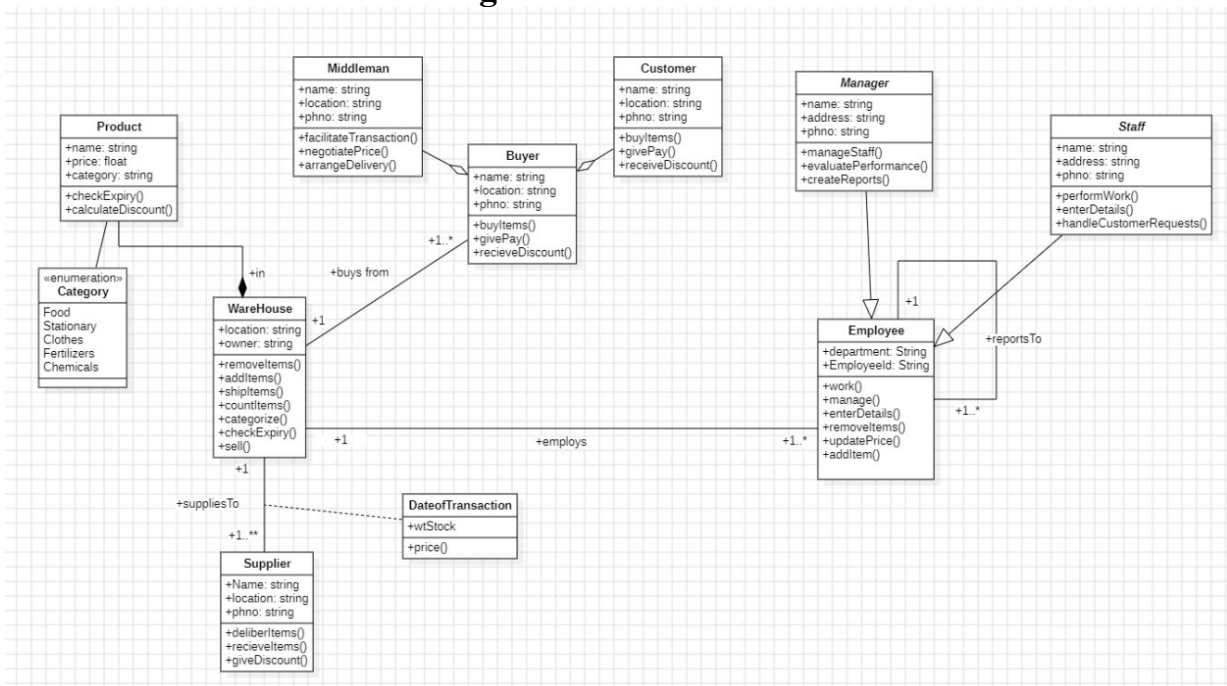# 1. Stock Maintenance system
a. SRS Document:
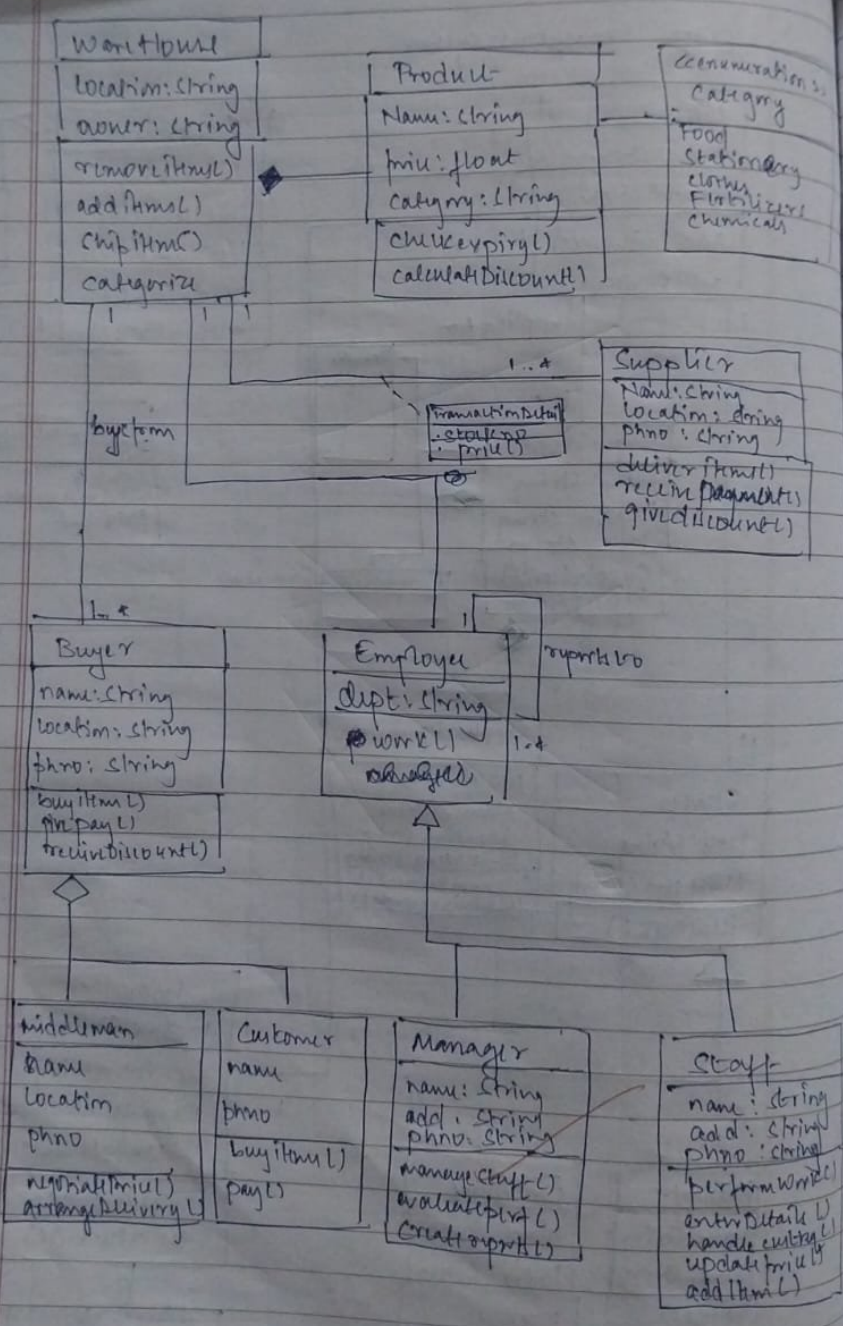
b. Advanced Class Diagram:

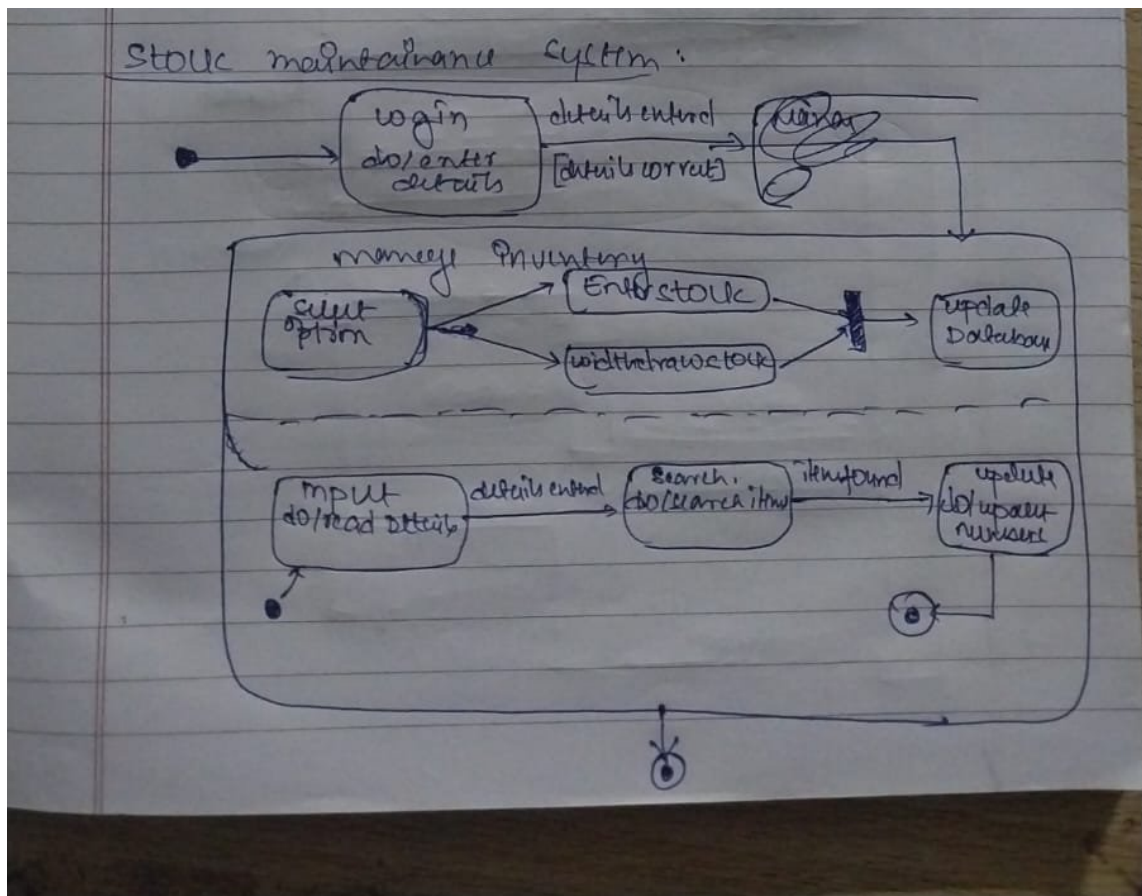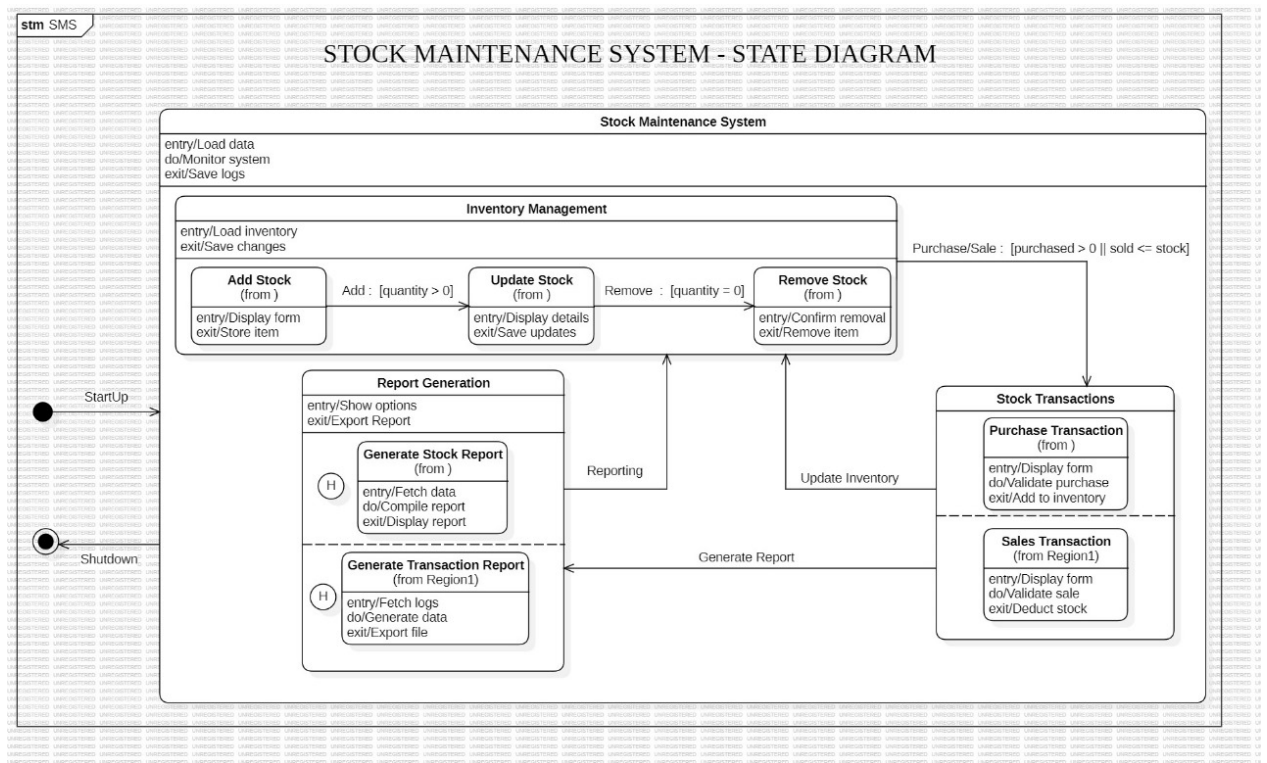# Stock management

Warehouse
location: string
owner: string
remove(item)
additem()
ship item()
categorize

Product
Name: string
price: float
category: String
checkexpiry()
calculate Discount()

<<enumeration>>
Category
Food
Stationary
cloths
Fertilizers
chemicals

buy from

1..*

TransactionDetail
. storage
. price()

Supplier
Name: String
Location: string
phno: string
deliver (item)
recieve Payment()
give discount()

1..*

Buyer
name: string
location: string
phno: string
buy item()
pay()
recieve Discount()

Employee
dept: string
work()
takeleave

report to

1..*

middleman
name
location
phno
negotiate(price)
Arrange Delivery()

Customer
name
phno
buy item()
pay()

Manager
name: string
add: string
phno: string
manage staff()
evaluate prdt()
create report()

Staff
name: string
add: string
phno: string
perform work()
enter Details()
handle enquiry()
update price()
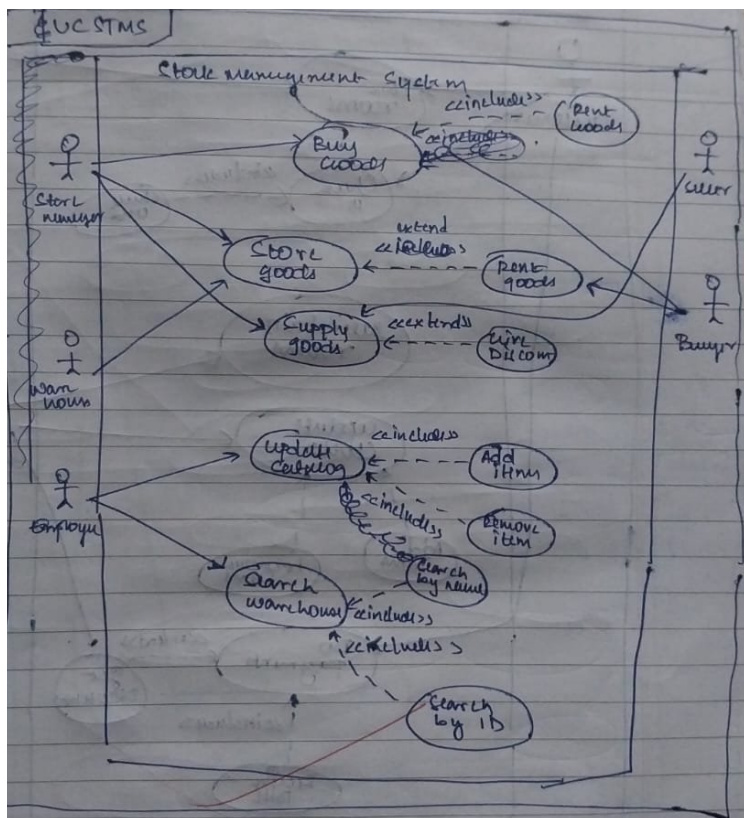add item()

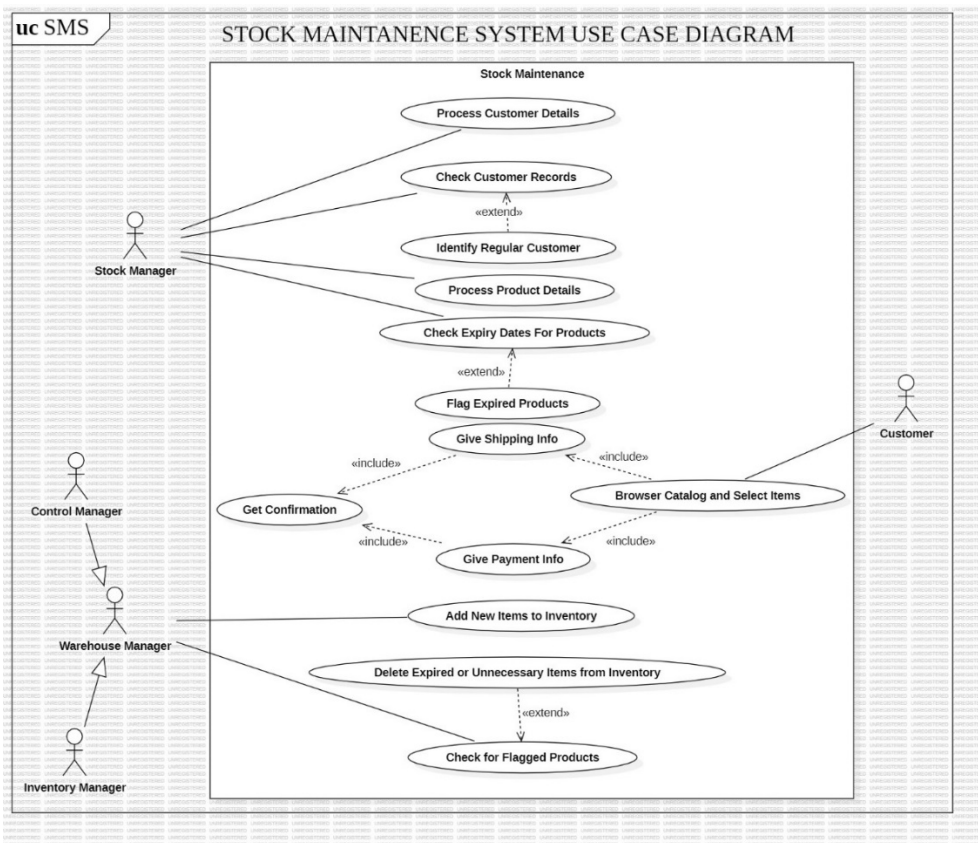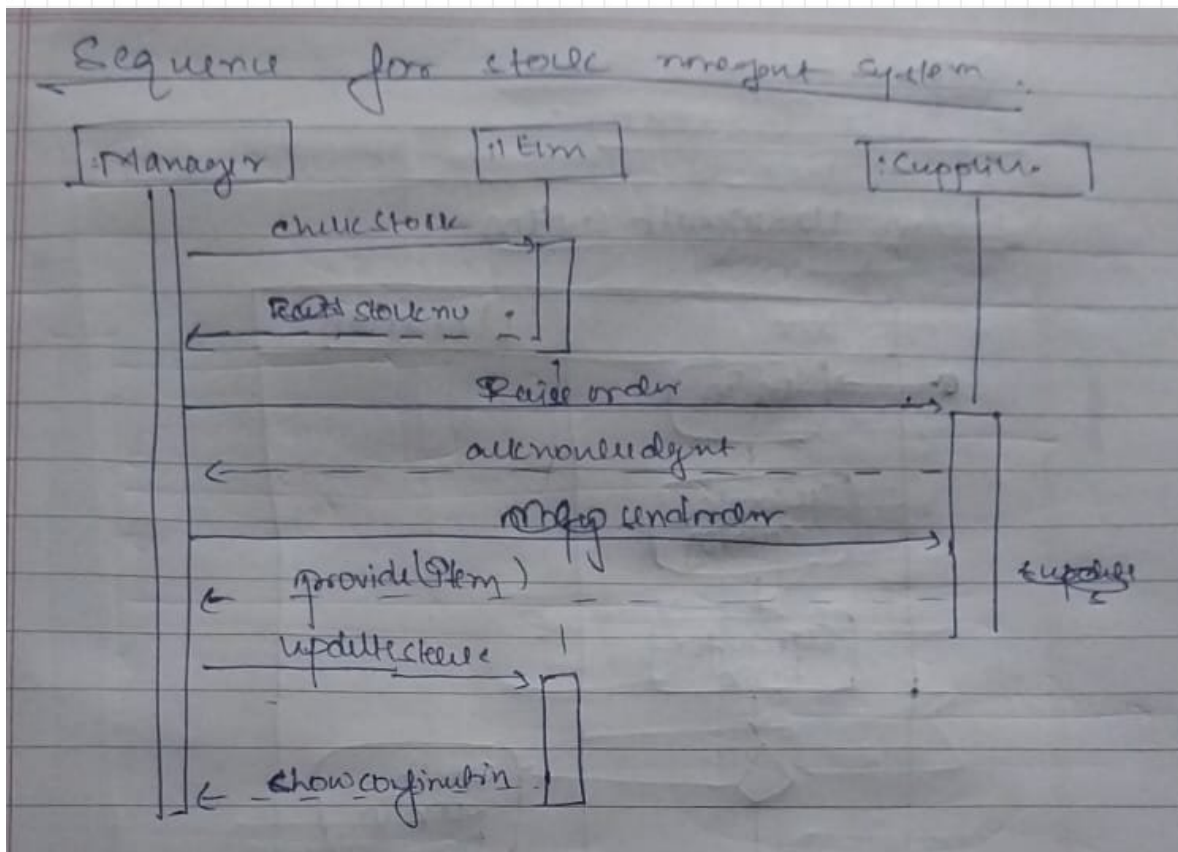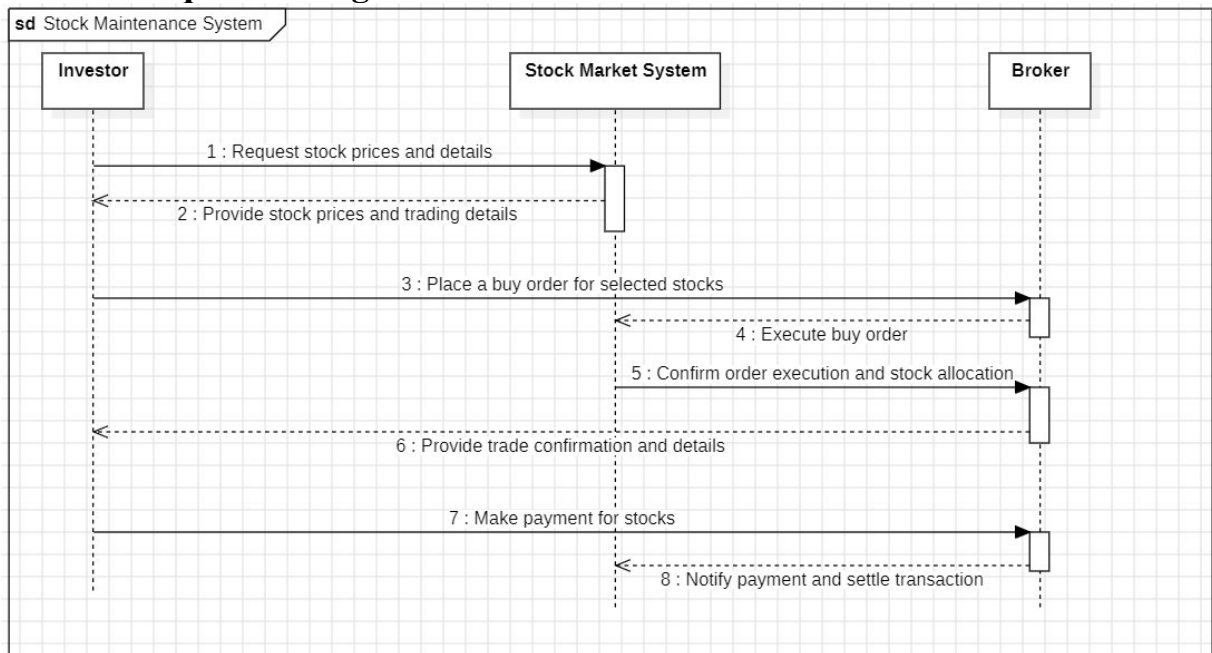## c. Advanced State Diagram:

STOCK MAINTENANCE SYSTEM - STATE DIAGRAM

d. Use Case Diagram:

e. Sequence Diagram:

f. Activity Diagram: