STOCK MANAGEMENT SYSTEM

PROBLEM STATEMENT

- The stock maintenance system which take care of sales information of the company and analyze the potential of the trade. It maintains the data in efficient manner. The existing system was recorded manually on pen and paper and time consuming one. To overcome this we are operating it in system and database for delivering accurate and real time information on stocks. This is also helps in calculating the total stocks, pending stocks and updating. It is mainly used in business sector to maintain stock level and profit and unprofitable product. This is mainly used by sales person and customers. This system is used for time and money saving, increases productivity and efficiency and also used for accurate data analysis of stocks. Also used for analysis the data in real-time requirements of the stocks.

PURPOSE

- The entire process of stock maintenance is done in a manual manner considering the fact that the number of customer for purchase is increasing every year, a maintenance system is essential to meet the demand. So this system uses several programming and database techniques to elucidate the work involved in this process.

SCOPE

- The system provides an interface to the customer where they can fill in orders for the items needed.
- The sales person is concerned with the issues of items and can use this system.
- Provide a communication platform between the customer and the sales person.

IMPORTANCE

This helps us to access and manage the information easily. This also helps to verify the stock currently available with them and to update the stock when necessary. This also reduce the time to search the product from the current available stock. The role of an inventory system is totrack your products and supplies. Inventory management is the process of controlling of the ordering, storage and use of components that a

company uses in the production of the products it sells.

OVERVIEW AND PLANNING

PROPOSED SYSTEM OVERVIEW

This system has the following modules

- **Login:**
  The seller gives the user name and password and logs into the system.
- **Register:**
  The seller gives the necessary details and register into the system
- **View and select product:**
  The database contains the list of available products and are displayed when selected.
  The total amount of the selected produced is displayed.
  To maintain the customer and owner relationship discount option is added
- **Billing:**
  On selecting the products and quantity the amount is displayed along with the details of selected products

OVERALL DESCRIPTION

PRODUCT PERSPECTIVE:

The stock maintenance acts as an interface between the 'customer' and the 'sales person'. This system tries to make the interface as simple as possible and at the same time not risking the work of data stored in.

SYSTEM FUNCTIONS:

- ❑ secure order of information by the customer.
- ❑ schedule the customer an appointment for normal delivery of the product.

CHALLENGES

- To explain that this software is better than manual system.
- To explain the detail process involved in the software.
- To develop a software which easy to use and avoid complexity.
- The software should satisfy the user needs.
- To provide accurate database services.

- To make sure that the software works at the user place (user environment).
- Mis-communication between the sales and the supply chain management team.

ASSUMPTIONS

- Based on the sales orders given to the supply chain management they check the availability of the raw materials and then they supply and manufacture products.
- The inventory system has the list of the products and quantity of the products. Depending upon the sales of the product the exact details about the product is displayed to the user.

- From this the customers selects the product to sell.

ARCHITECTURE SPECIFICATIONS

- The architecture of inventory management system uses client server model
- The design or architectural specification for the inventory management system is Java since the JSP architecture will be used.
- The Java Database Connectivity (JDBC) will use the MySQL Connector for the server to communicate to the inventory database.
- Upon receiving requests from the clients, the server will issue transactions to the MySQL database.

HARDWARE REQUIREMENTS

- PROCESSOR : 64-bit
- ROM :2GB
- RAM :4GB

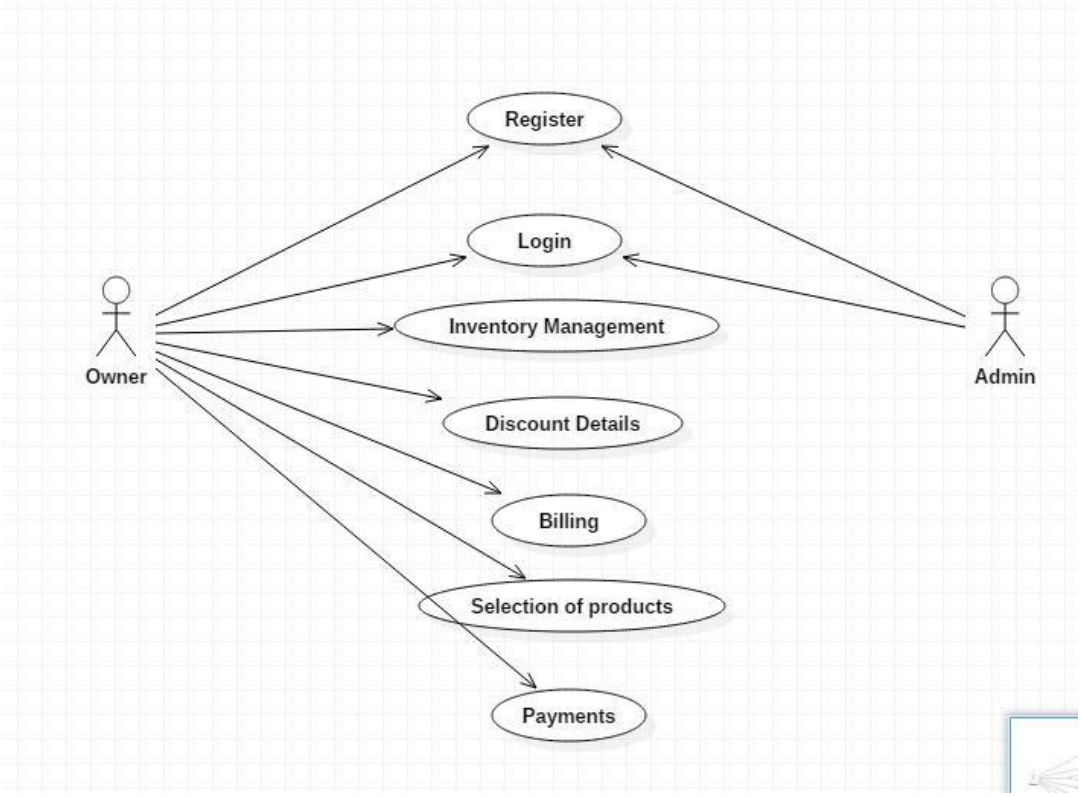
SOFTWARE REQUIREMENTS

- OPERATING SYSTEM: windows 8/10
- FRONT END : java netbeans
- BACK END : mysql

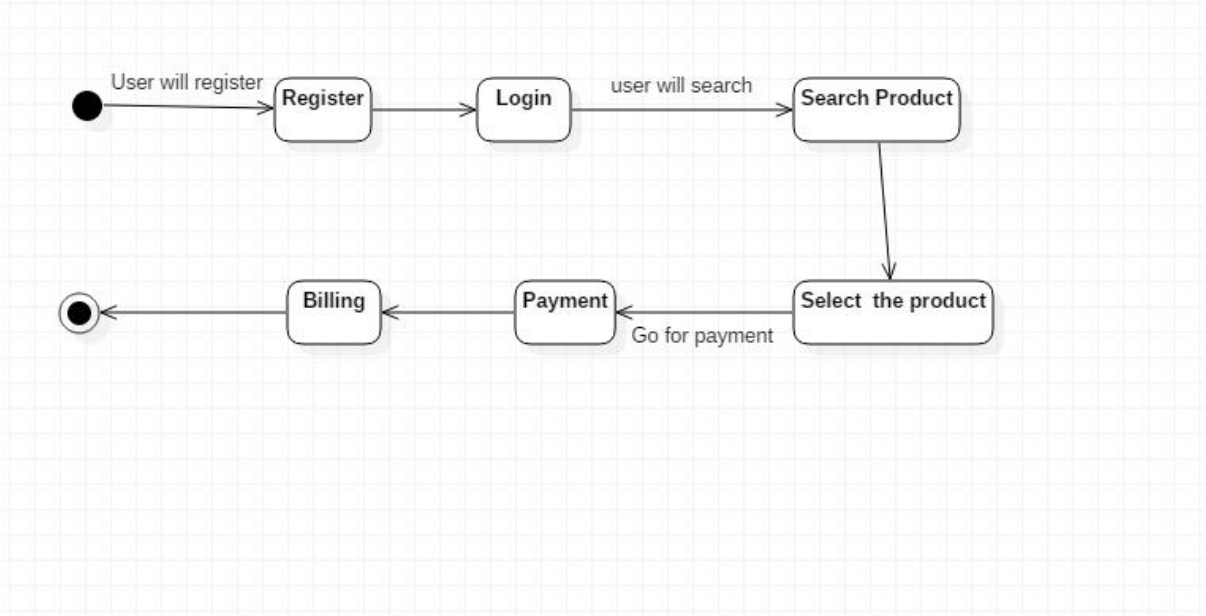
SYSTEM DESIGN

2.1 High-Level Design

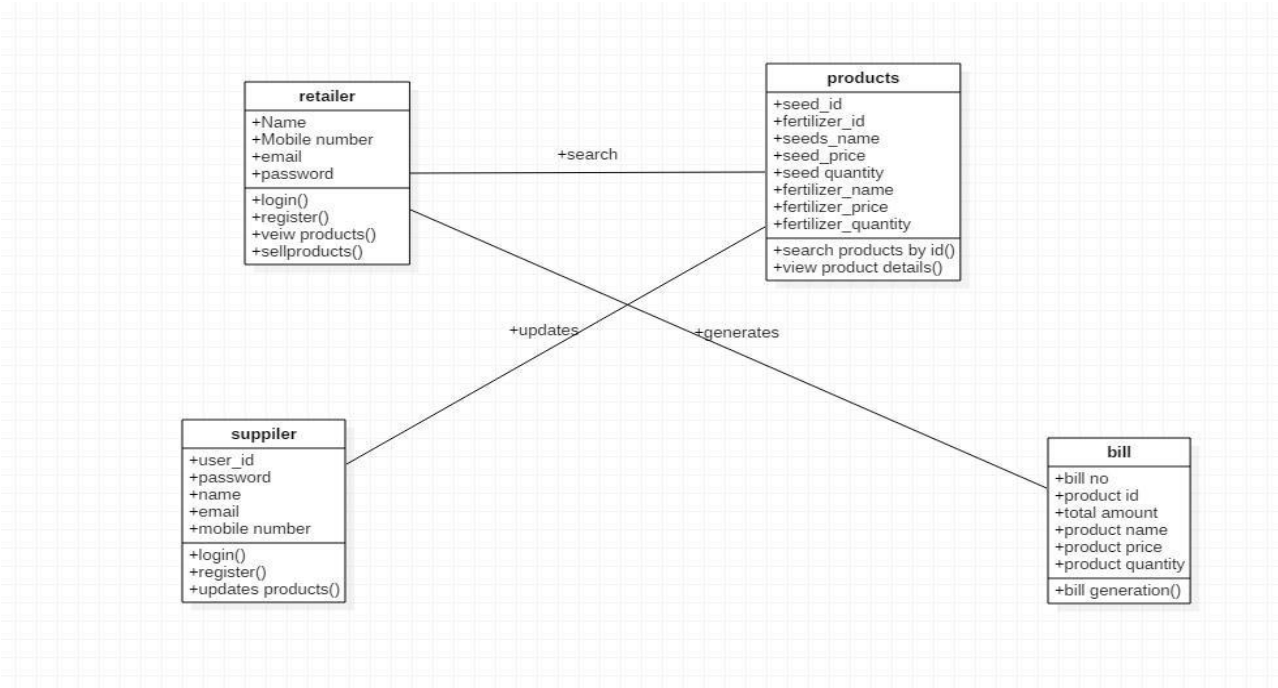
USECASE DIAGRAM



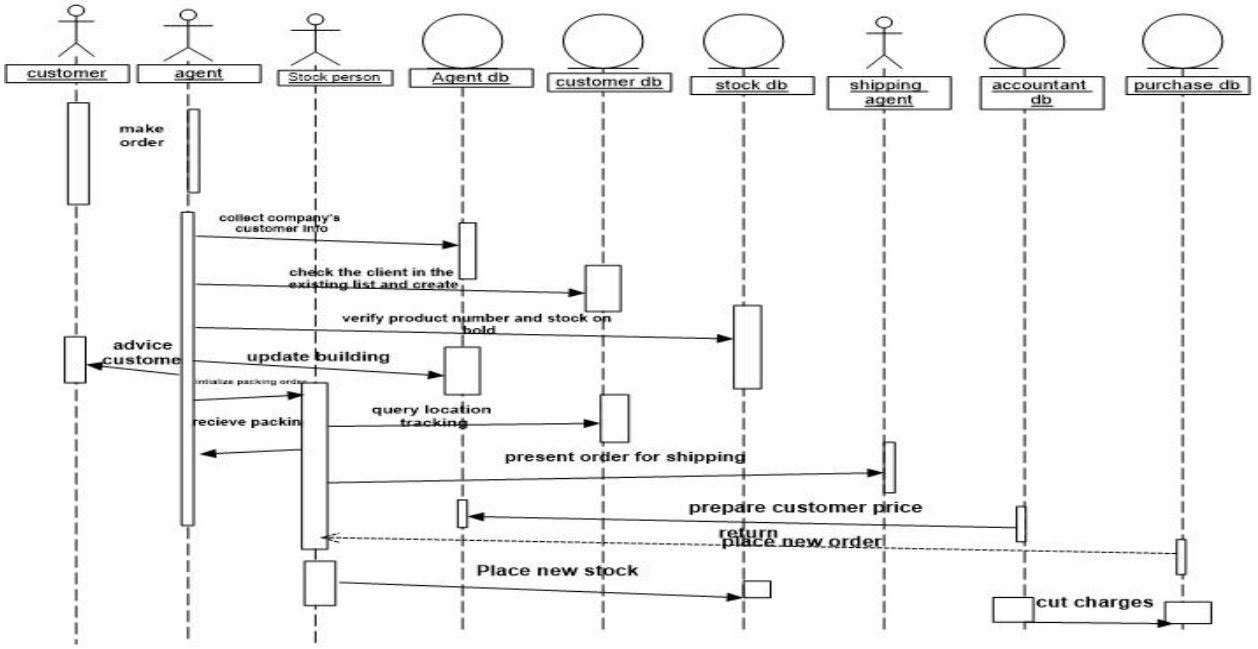
STATECHART DIAGRAM



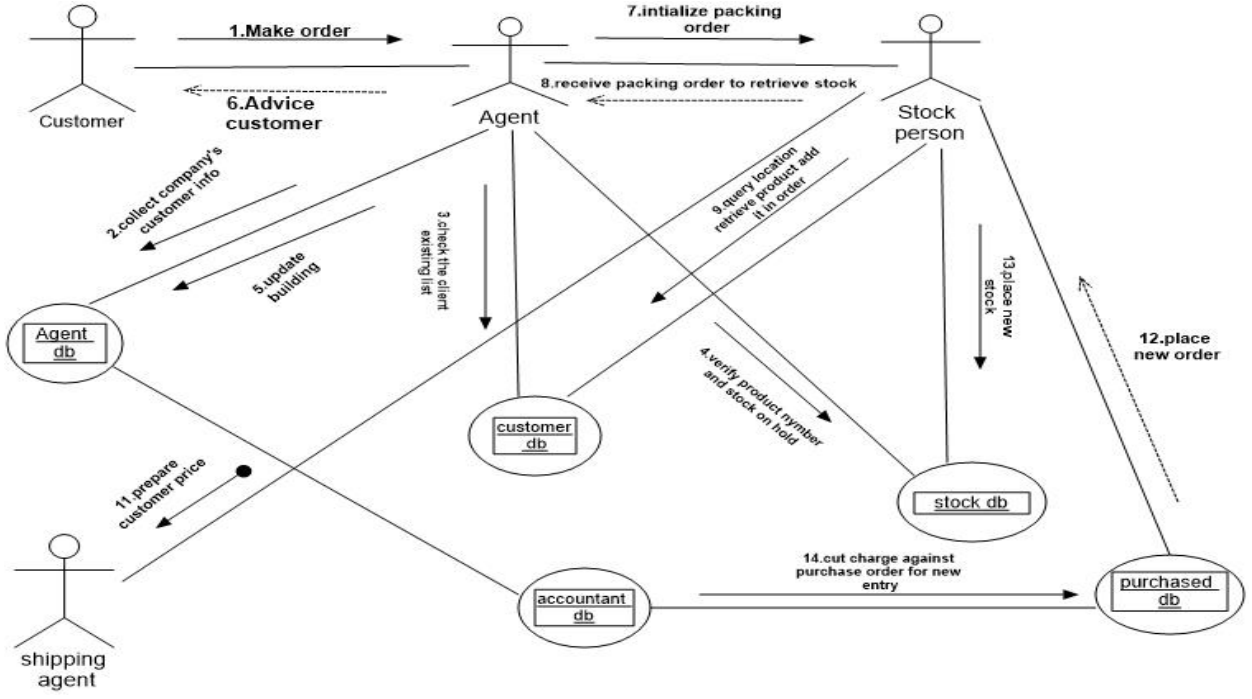
CLASS DIAGRAM



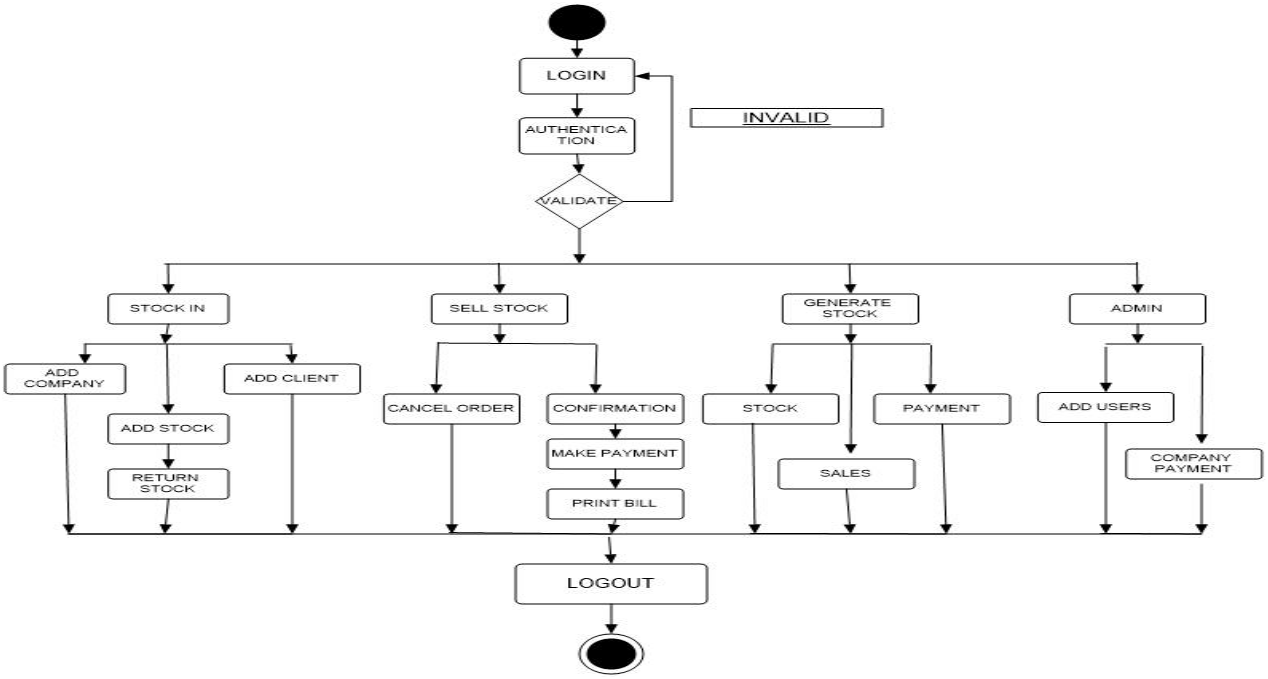
SEQUENCE DIAGRAM



COLLABORATION DIAGRAM:

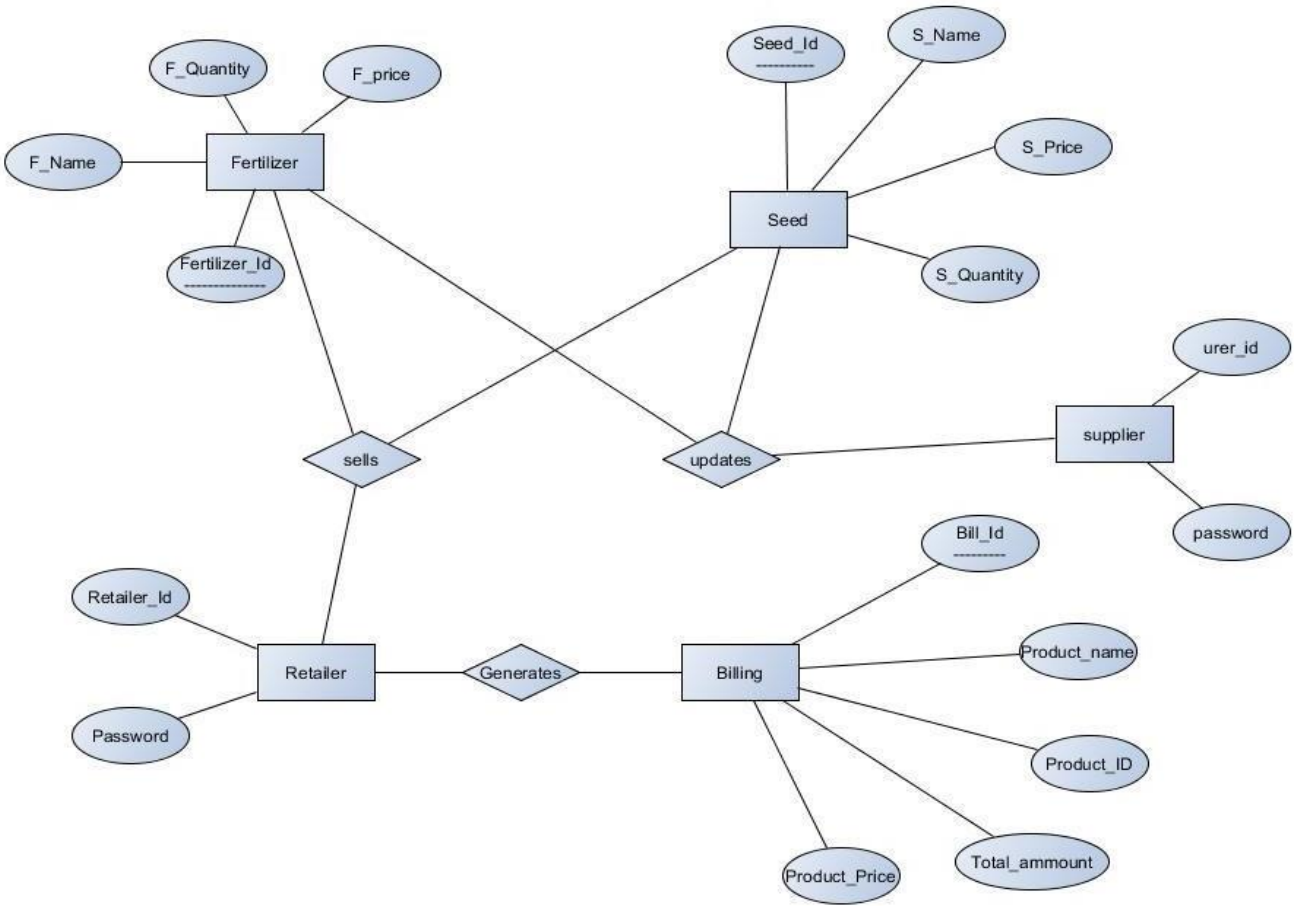


ACTIVITY DIAGRAM:

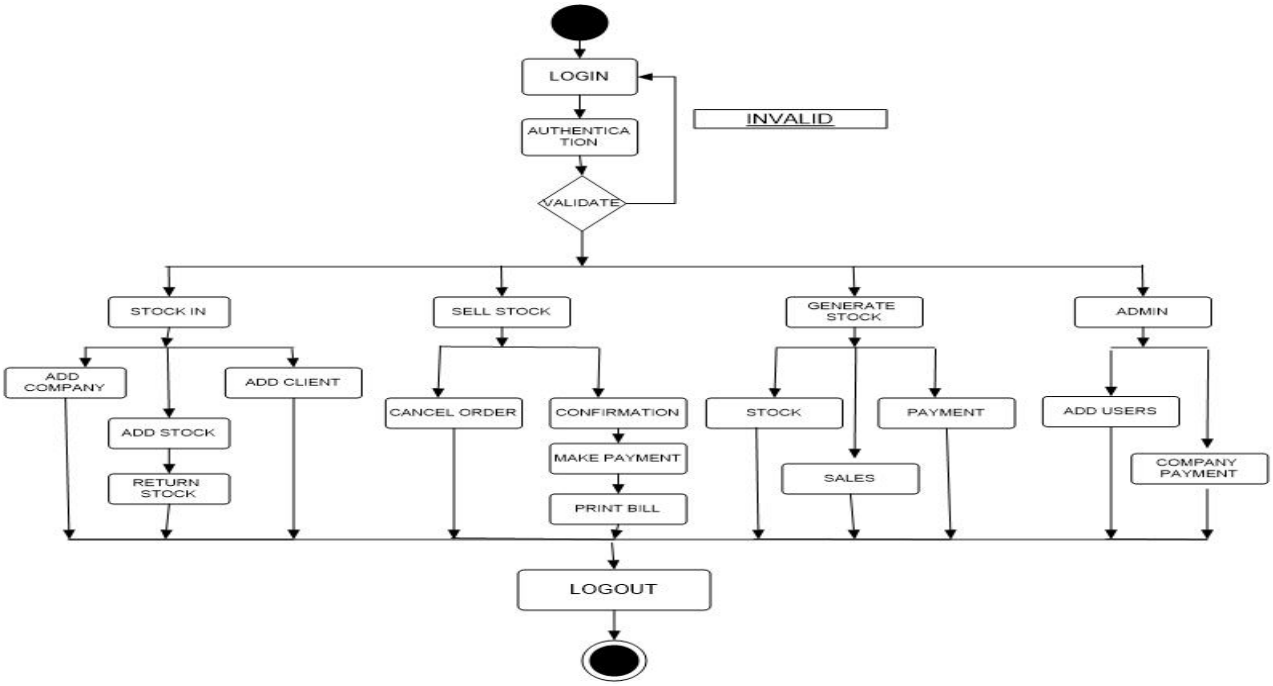


LOW-LEVEL DESIGN

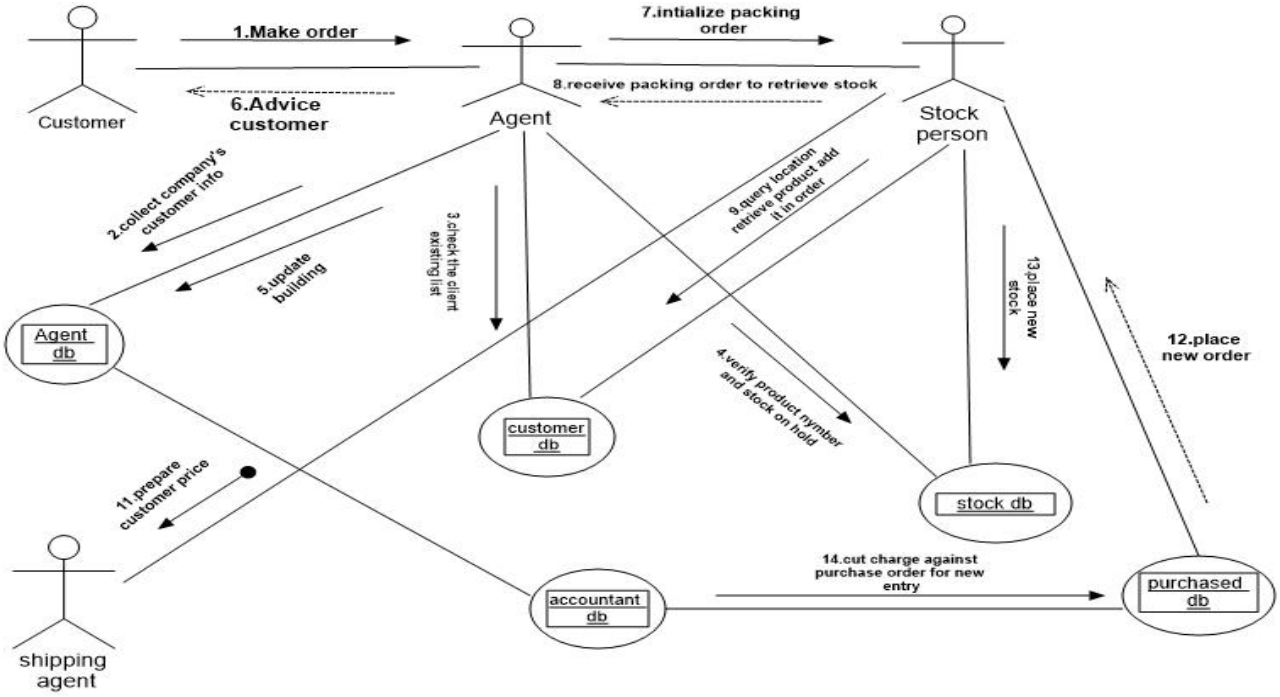
ER DIAGRAM



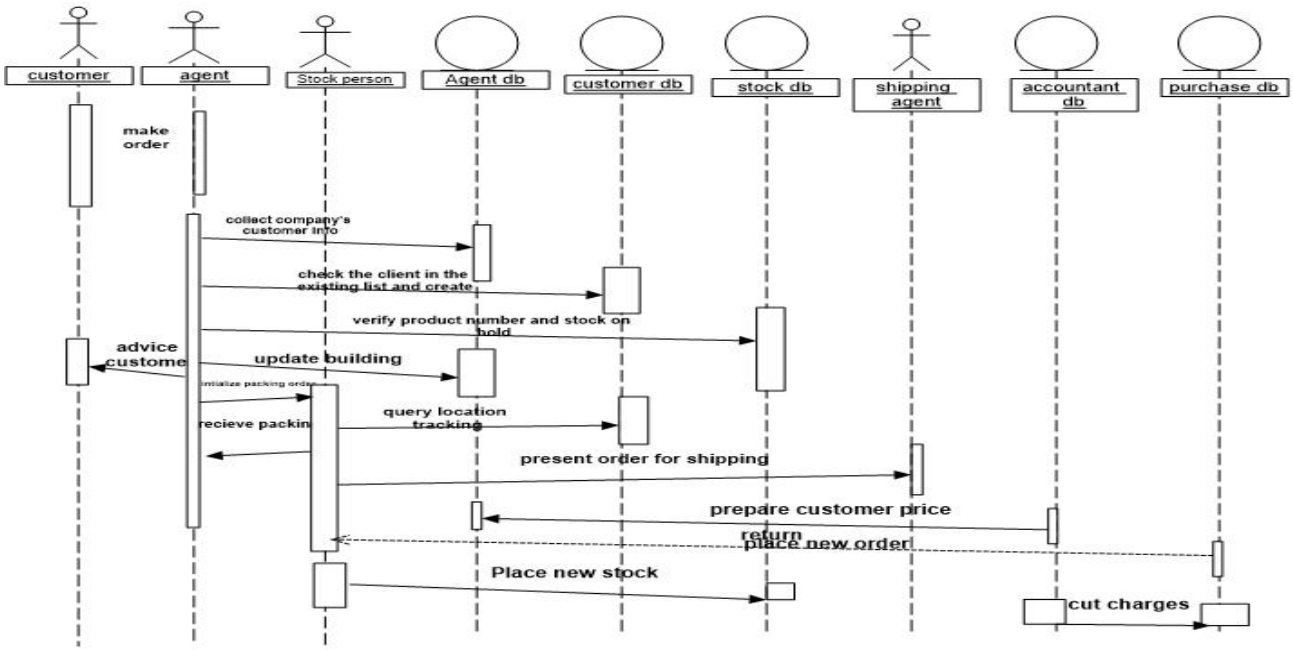
ACTIVITY DIAGRAM



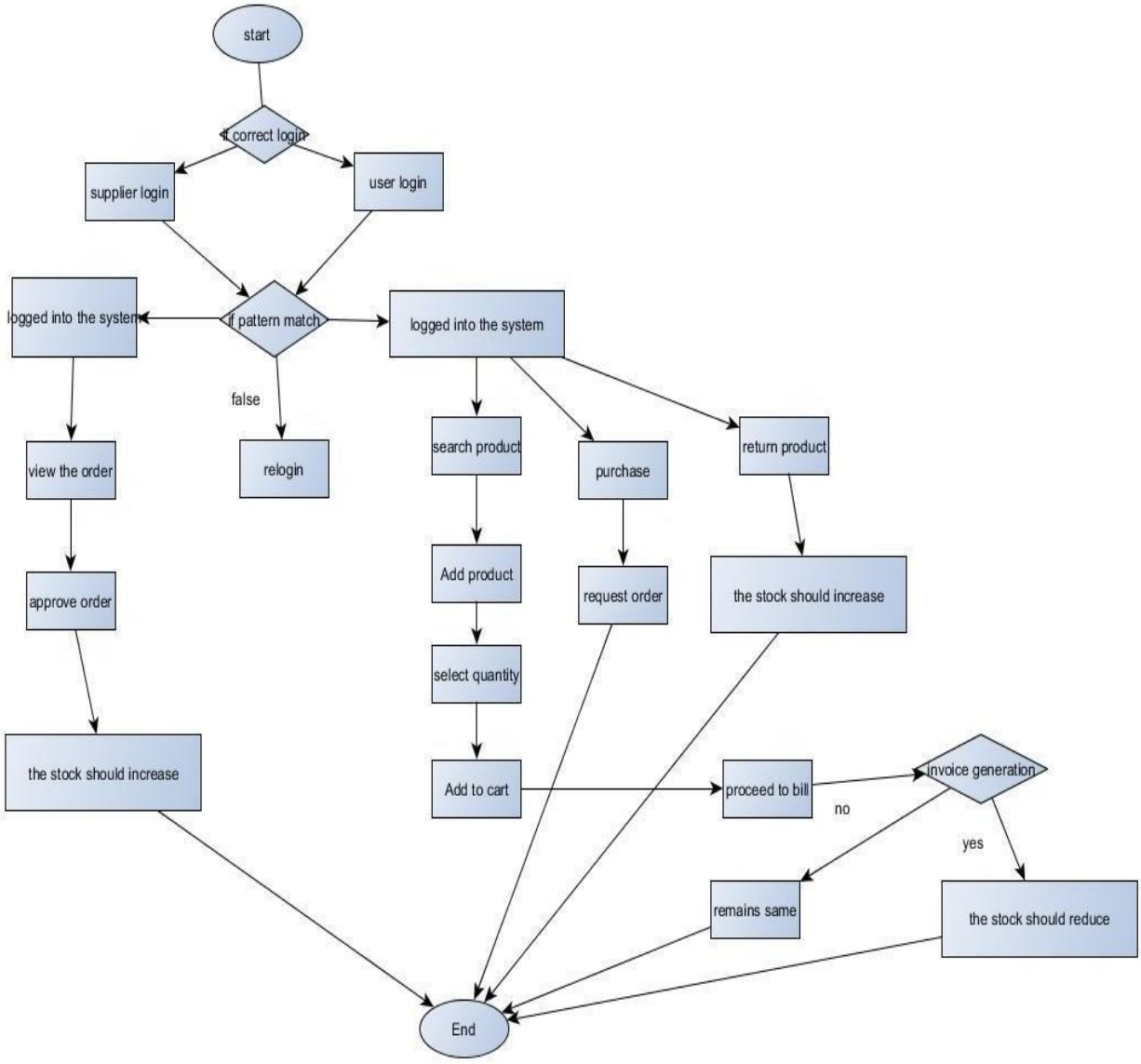
COLLABARATION DIAGRAM



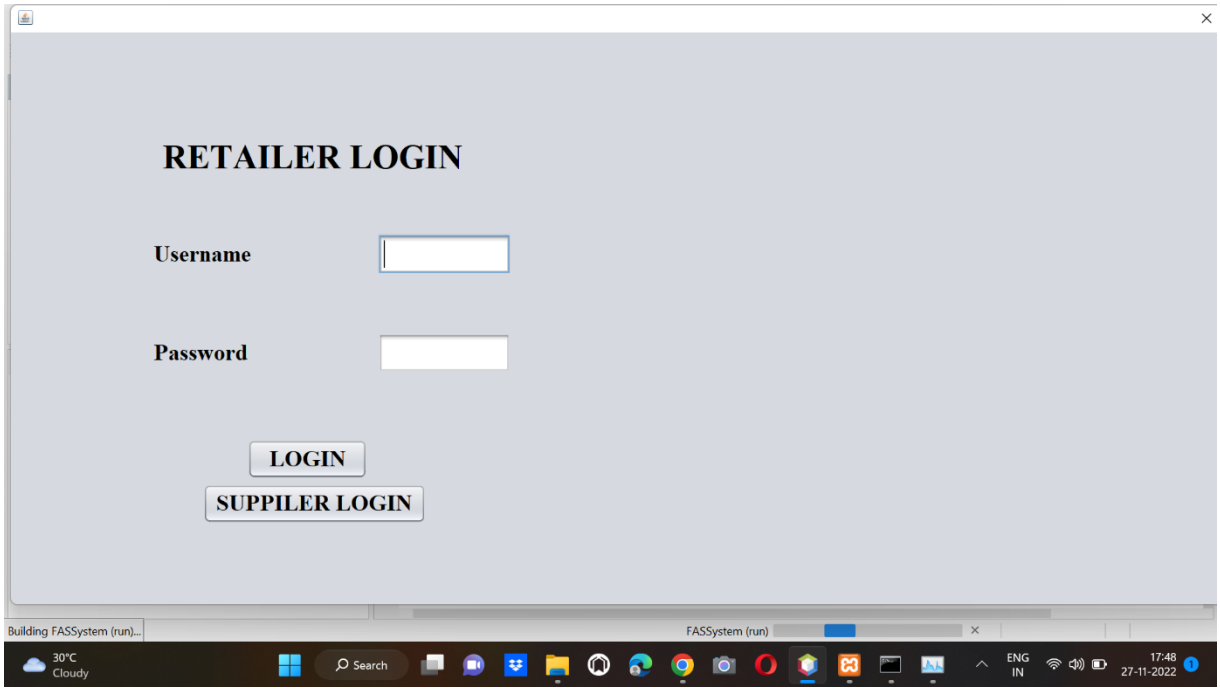
SEQUENCE DIAGRAM

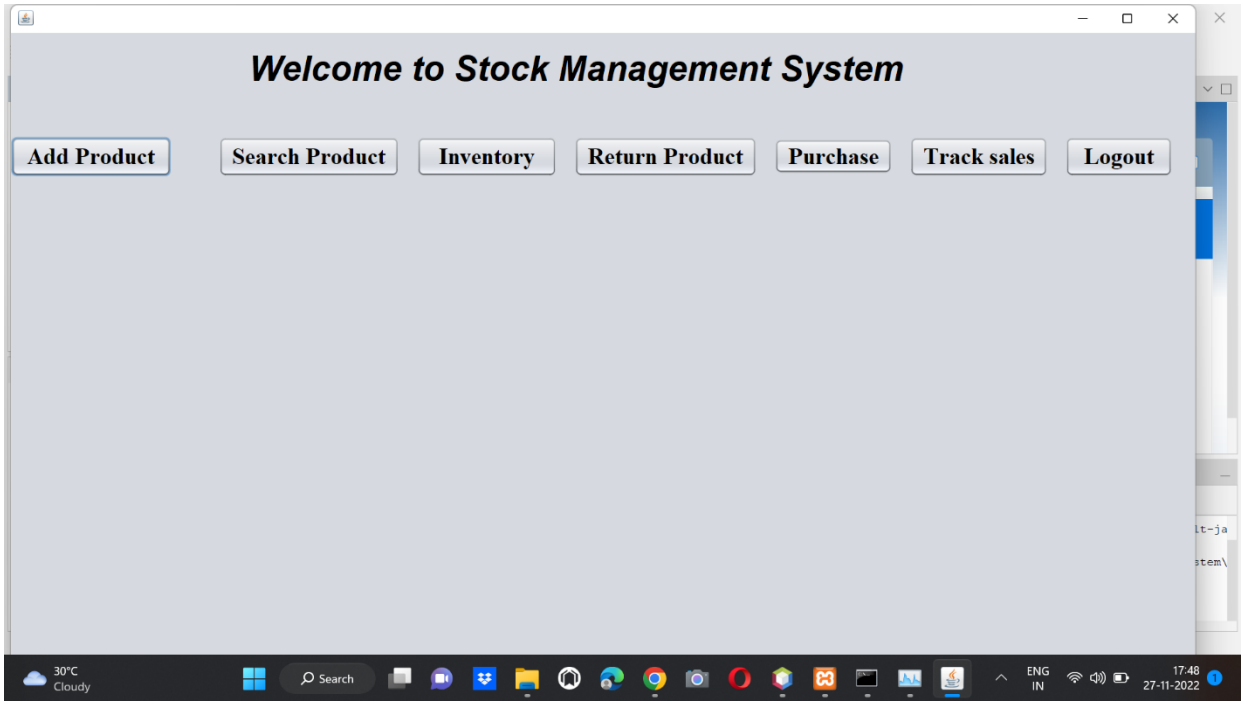

customer
agent
Stock person
Agent db
customer db
stock db
shipping agent
accountant db
purchase db
make order
collect company's customer info
check the client in the existing list and create
verify product number and stock on hold
advice custome
update building
initialize packing order
recieve packin
query location tracking
present order for shipping
prepare customer price
return
place new order
Place new stock
cut charges

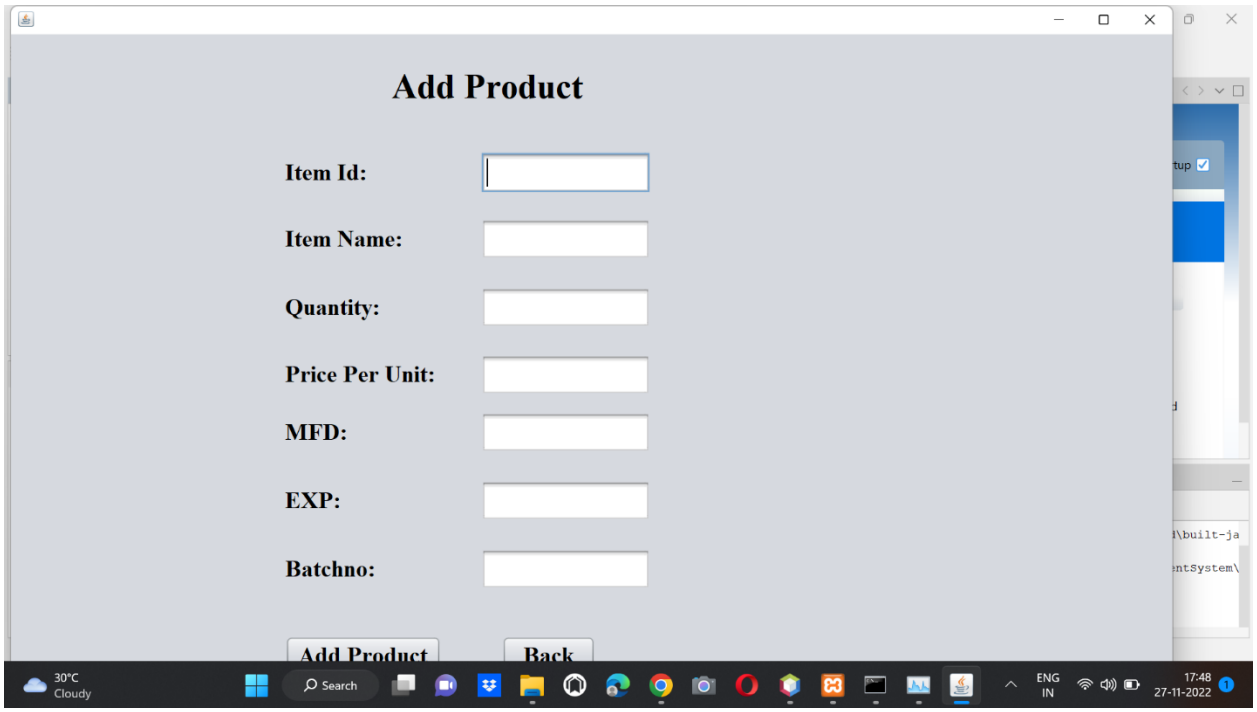
SYSTEM IMPLEMENTATION

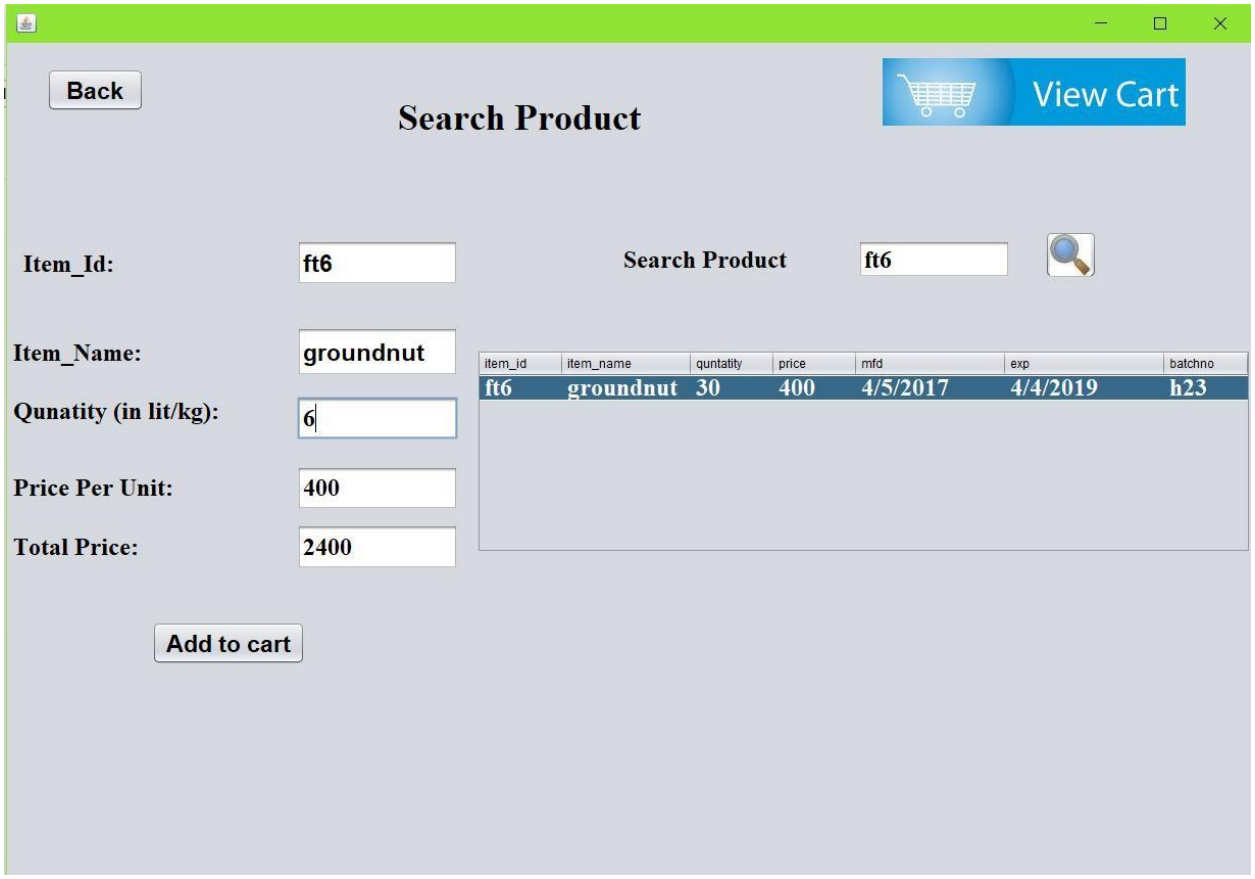


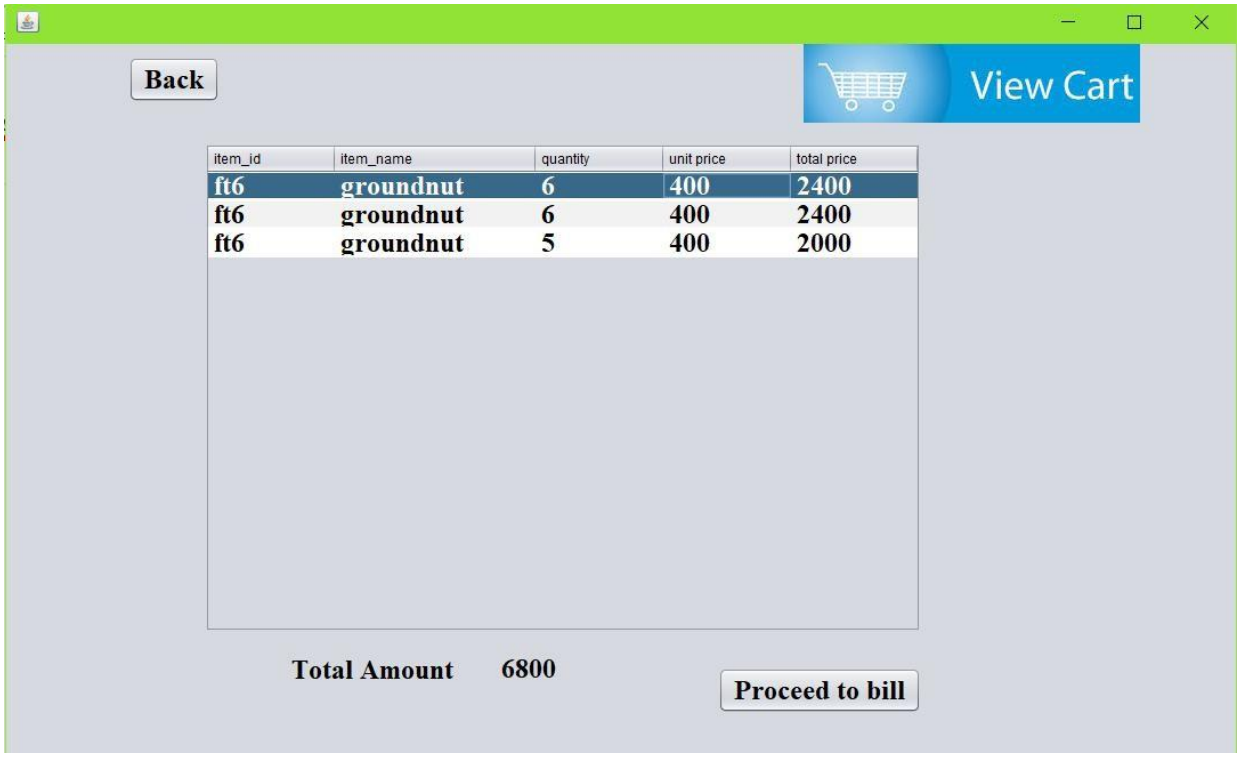
OUTPUT/RESULTS

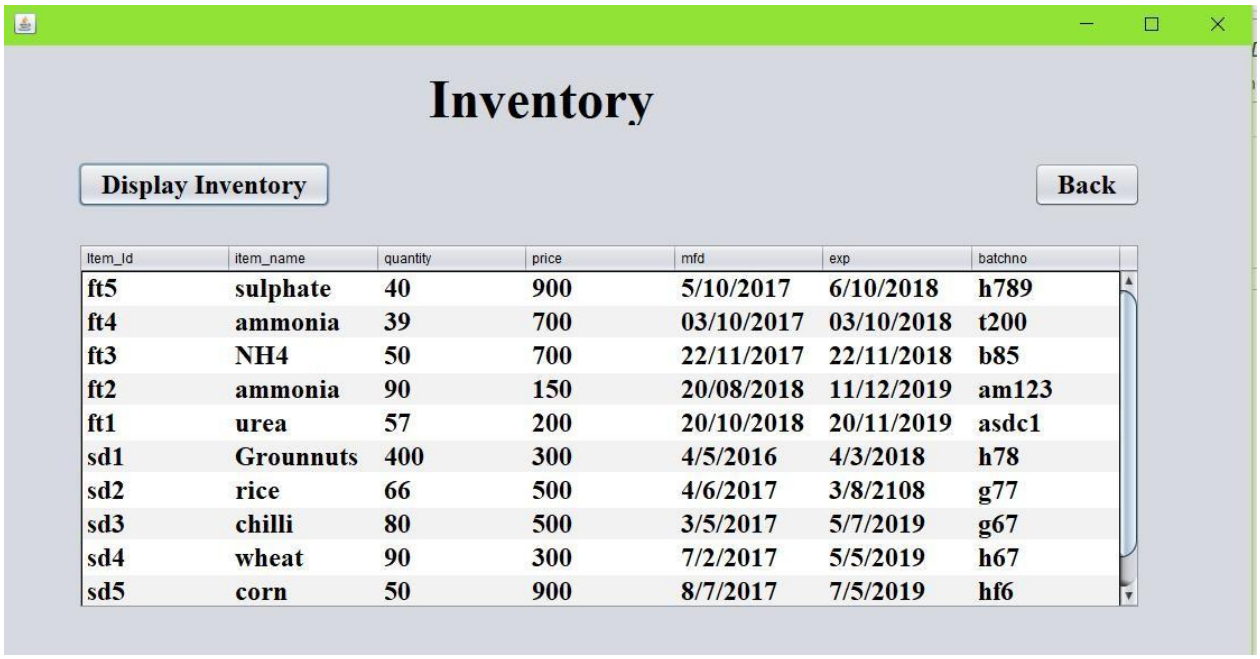


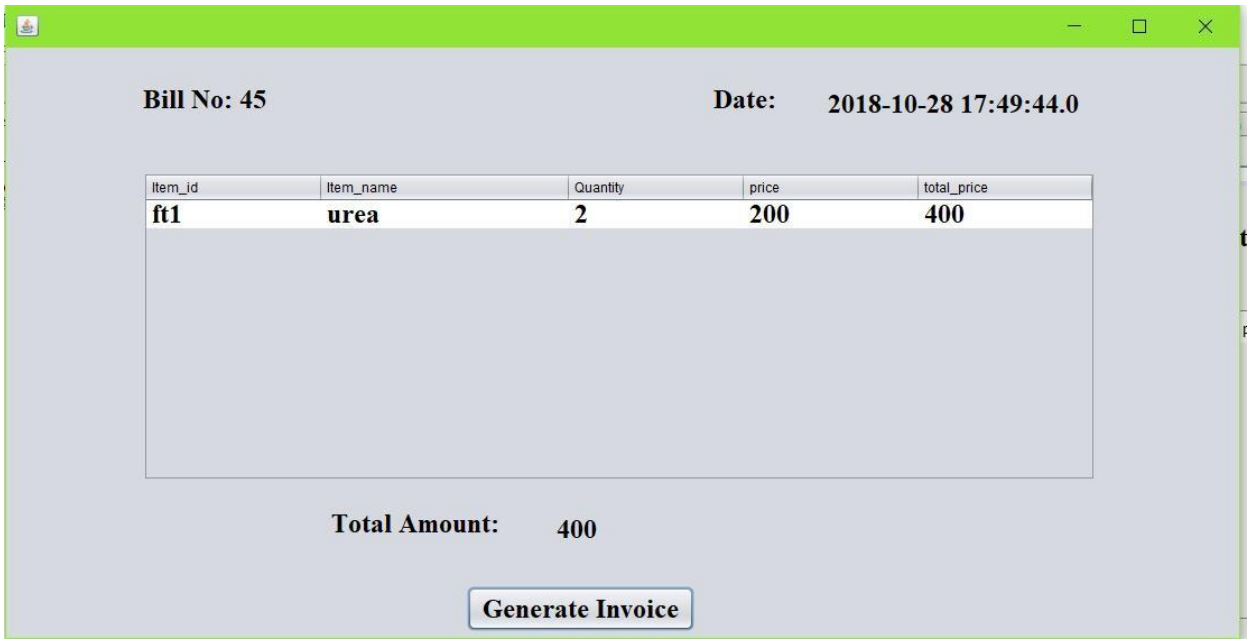


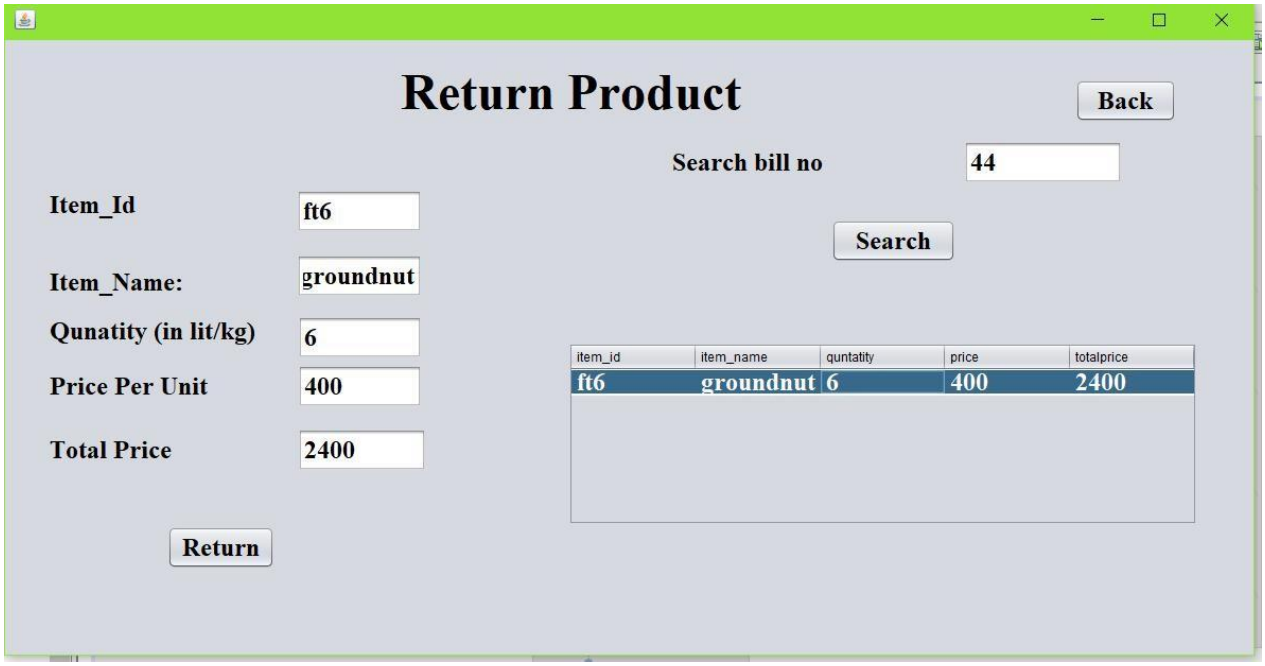

Add Product
Item Id:
Item Name:
Quantity:
Price Per Unit:
MFD:
EXP:
Batchno:
Add Product
Back

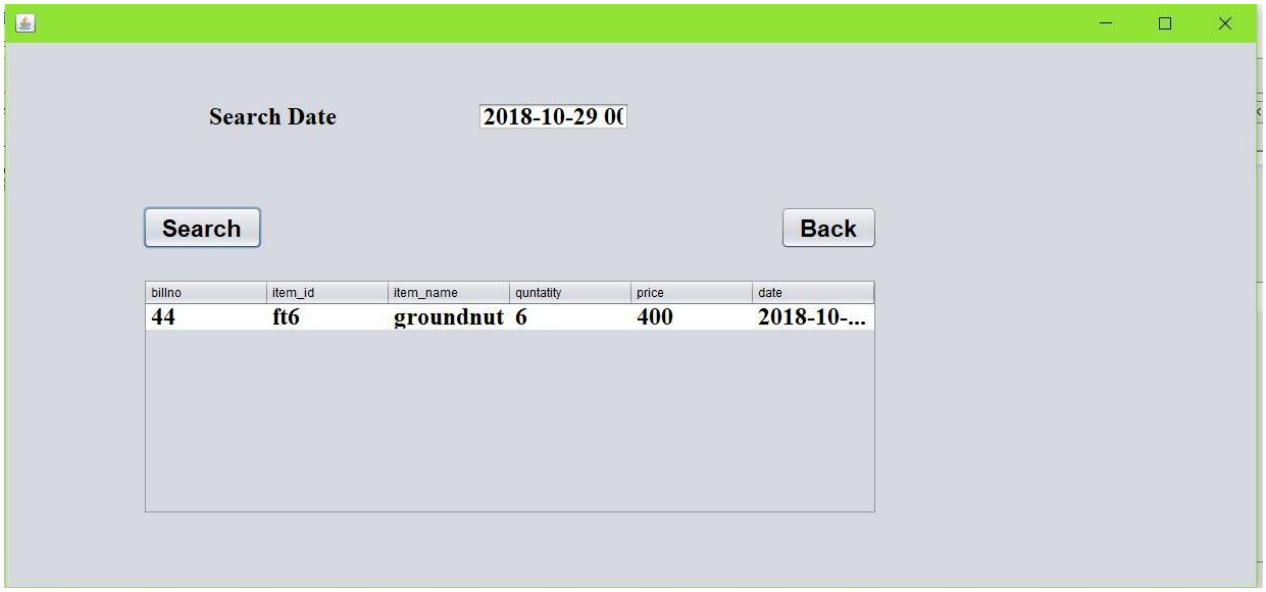

Back
Search Product
View Cart
Item_Id:
ft6
Search Product
ft6
Item_Name:
groundnut
Qunatity (in lit/kg):
6
Price Per Unit:
400
Total Price:
2400
item_id
item_name
quntatity
price
mfd
exp
batchno
ft6
groundnut
30
400
4/5/2017
4/4/2019
h23
Add to cart


Back
View Cart
item_id
item_name
quantity
unit price
total price
ft6 groundnut 6 400 2400
ft6 groundnut 6 400 2400
ft6 groundnut 5 400 2000
Total Amount 6800
Proceed to bill


Inventory
Display Inventory
Back
Item_Id item_name quantity price mfd exp batchno
ft5 sulphate 40 900 5/10/2017 6/10/2018 h789
ft4 ammonia 39 700 03/10/2017 03/10/2018 t200
ft3 NH4 50 700 22/11/2017 22/11/2018 b85
ft2 ammonia 90 150 20/08/2018 11/12/2019 am123
ft1 urea 57 200 20/10/2018 20/11/2019 asdc1
sd1 Grounnuts 400 300 4/5/2016 4/3/2018 h78
sd2 rice 66 500 4/6/2017 3/8/2108 g77
sd3 chilli 80 500 3/5/2017 5/7/2019 g67
sd4 wheat 90 300 7/2/2017 5/5/2019 h67
sd5 corn 50 900 8/7/2017 7/5/2019 hf6


Bill No: 45
Date: 2018-10-28 17:49:44.0
Item_id Item_name Quantity price total_price
ft1 urea 2 200 400
Total Amount: 400
Generate Invoice


Return Product
Back
Search bill no
44
Item_Id
ft6
Search
Item_Name:
groundnut
Qunatity (in lit/kg)
6
Price Per Unit
400
Total Price
2400
item_id
item_name
quntatity
price
totalprice
ft6
groundnut
6
400
2400
Return


Search Date
2018-10-29 0(
Search
Back
billno
item_id
item_name
quntatity
price
date
44
ft6
groundnut
6
400
2018-10-...

DISCUSSION

In future the products can be scanned with the help of barcode scanner. A system can be developed to take order from the customers online and deliver them. The customer relationship can be built with the help of feedback.

CONCLUSION AND FUTURE DEVELOPMENTS

In this project we have developed a system which helps the retailers to sell and manage their products easily. It covers the functional areas of erp such as Marketing and sales, Supply chain management, Accounting and Finance and Human Resources. So this can help in increasing the sales of the retailer through the help of the inventory management. So the required products can be bought based on the demand. In future the products can be scanned with the help of barcode scanner. A system can be developed to take order from the customers online and deliver them. The customer relationship can be built with the help of feedback.