# **Stock Management System**

#### 1.1 Problem Statement

In is very difficult to manage the records of every product manually It is very time consuming process. In case any problems occurs like missing the records which are saved in offline then many problems arises and it becomes difficult to get back the data so managing the details is not preferable.

### 1.2Importance

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 to track 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.

### 2. Overview and Planning

2.1 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

### 2.2 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.

### 2.3 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.

## 2.4 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.

## 2.5 Hardware Requirements

PROCESSOR: 64-bit

ROM: 2GB RAM: 4GB

### 2.6 Software Requirements

OPERATING SYSTEM: WINDOWS 8/10

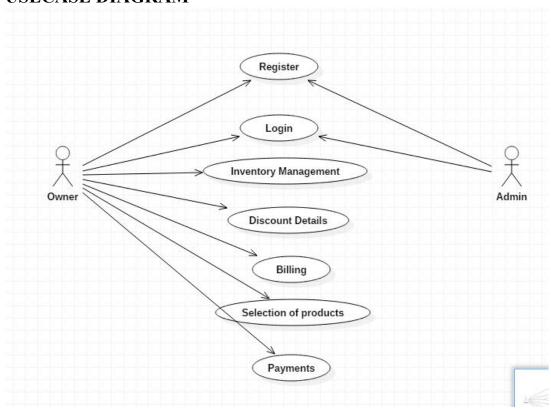
FRONT END: JAVA NETBEANS

BACK END: MYSQL

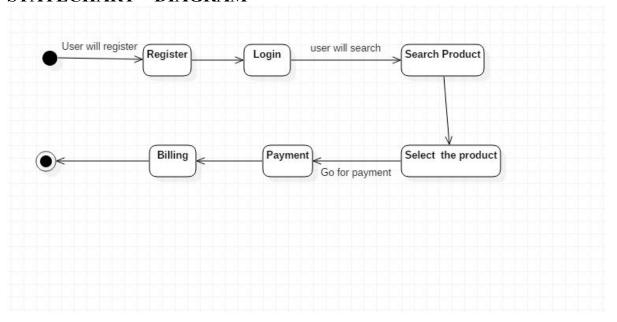
## 3. System Design

## 3.1 High-Level Design

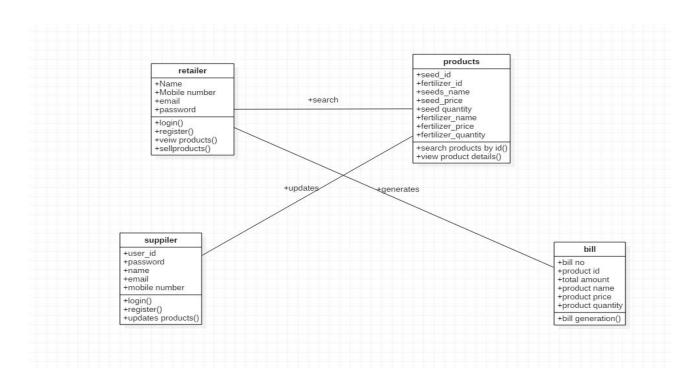
### **USECASE DIAGRAM**



#### STATECHART DIAGRAM

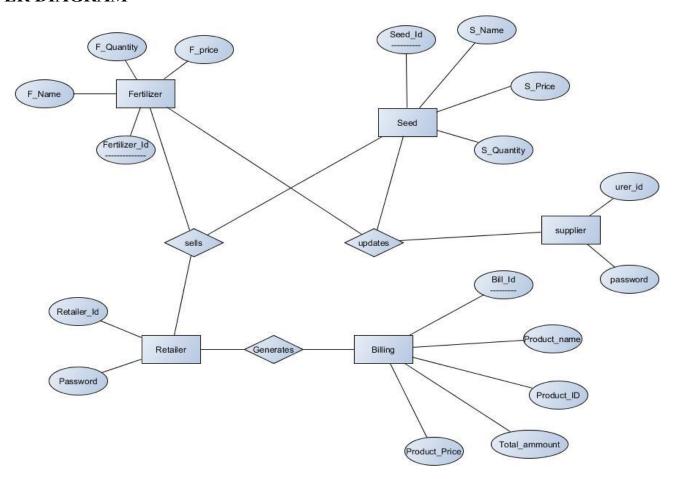


#### **CLASS DIAGRAM**

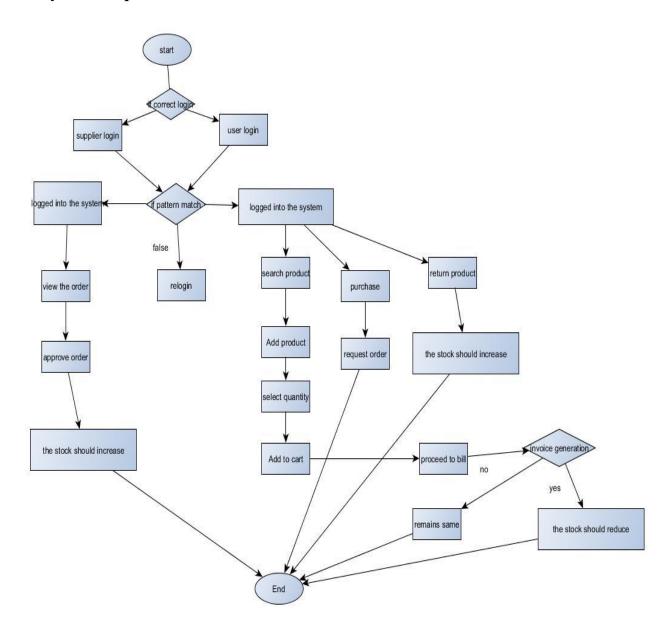


## 3.2 Low-Level Design

### **ER DIAGRAM**



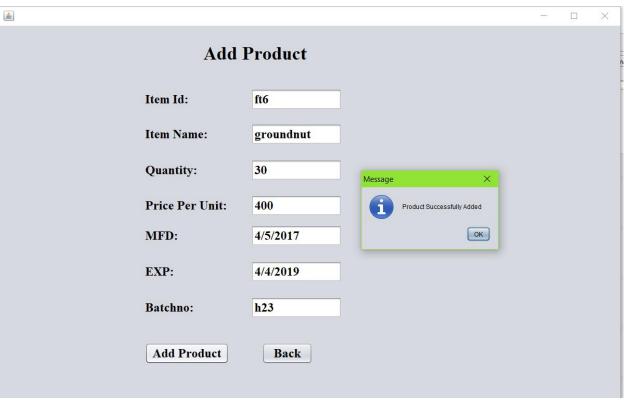
# 4. System Implementation

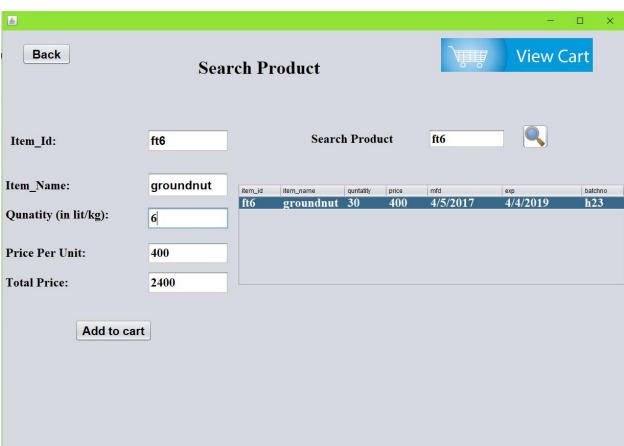


## 4.1 Output/Results

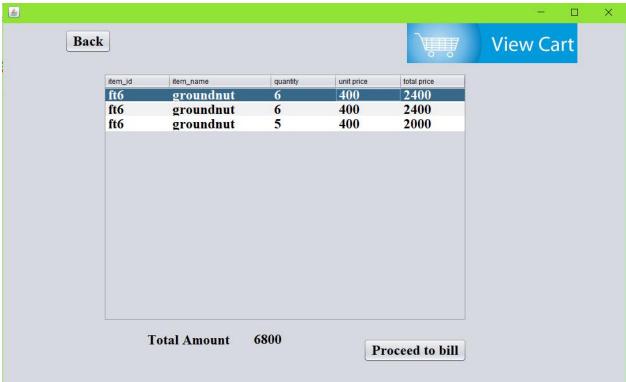




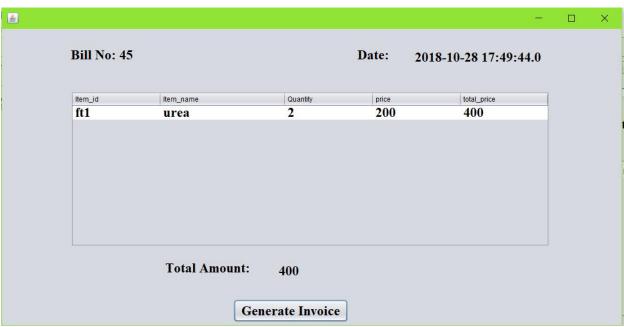


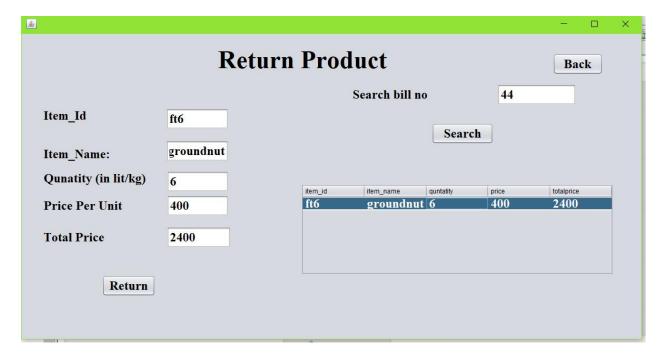


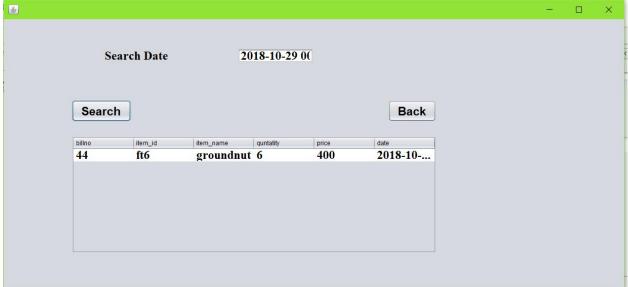












#### 4.2 Discussion

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.

### 5. 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.