Inventory Management System

1.1 Problem Statement

Managing the details is not recommended since it is highly difficult and time-consuming to handle each product's records manually, and if there is a problem—for example, if a record is lost that was saved offline—it creates a host of other issues and makes it challenging to recover the data.

1.2Importance

This makes it easier for us to handle and retrieve the information. Additionally, this aids in checking the goods they already have on hand and updating them as needed. This cuts down on the time it takes to find the product in the stock that is currently on hand. An inventory system's job is to keep track of your supplies and goods. Inventory management is the act of keeping track of the components that a business orders, stores, and uses to make the goods it sells.

2. Overview and Planning

2.1 Proposed System Overview

This system has the following modules

□ Logir	1		

The seller gives the username and password and logs into the system.

□ Register

The seller gives the necessary details and registers in the system

\Box View and select the product

The database contains the list of available products and is 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 the selected products

2.2 Challenges

- To explain that this software is better than a manual system.
- To explain the detailed process involved in the software.
- To develop software which easy to use and avoid complexity.
- The software should satisfy the user's needs.
- To provide accurate database services.
- To make sure that the software works at the user's 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 the quantity of the products. Depending upon the sales of the product the exact details about the product are displayed to the user.
- From this the customers select the product to sell.

2.4 Architecture Specifications

- The architecture of the inventory management system uses a clientserver 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 with 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

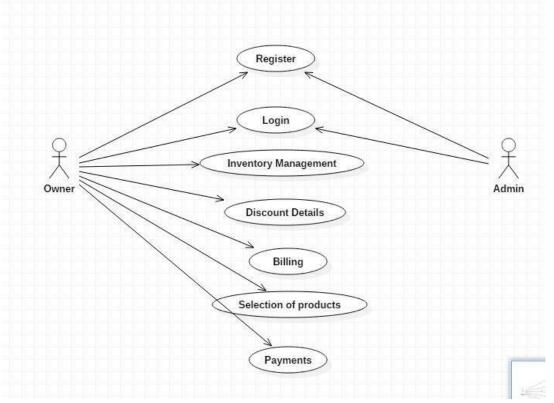
2.6 Software Requirements

OPERATING SYSTEM: WINDOWS 8/10 FRONT END: JAVA NETBEANS BACK END: MYSQL

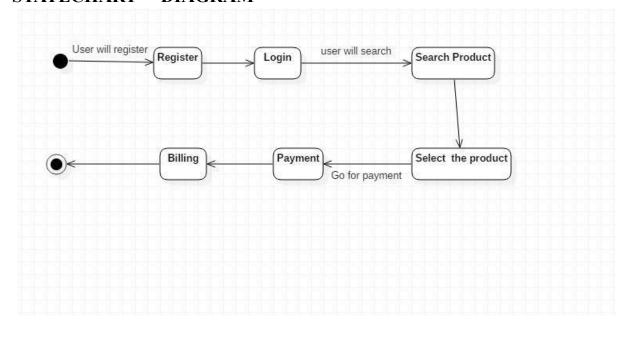
3. System Design

3.1 High-Level Design

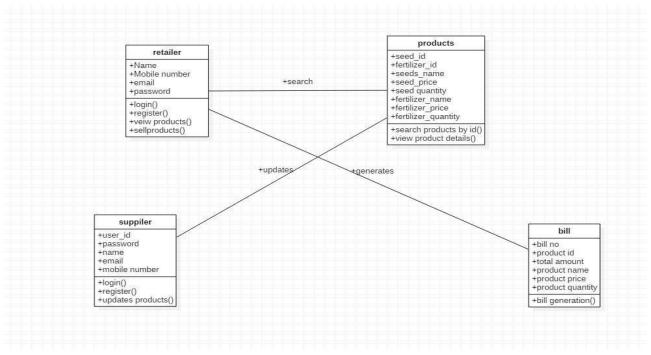
USE CASE DIAGRAM



STATECHART DIAGRAM

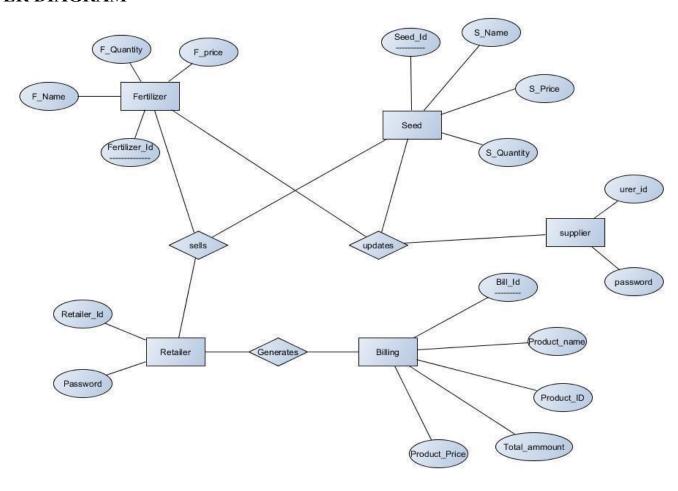


CLASS DIAGRAM

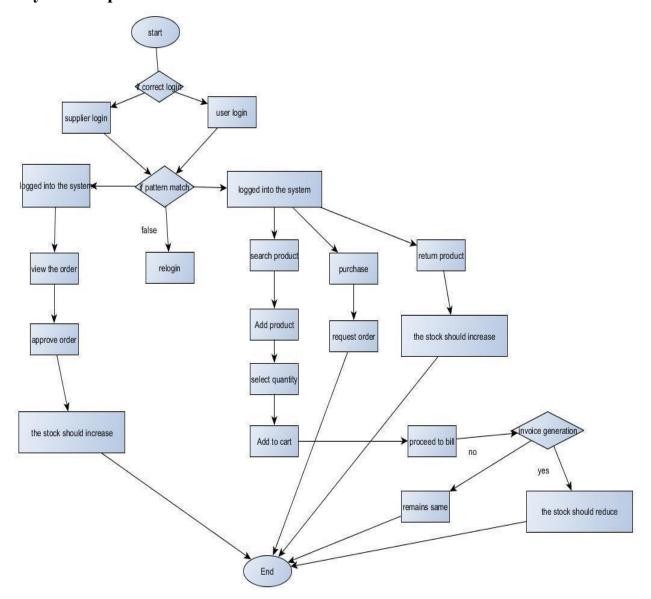


3.2 Low-Level Design

ER DIAGRAM



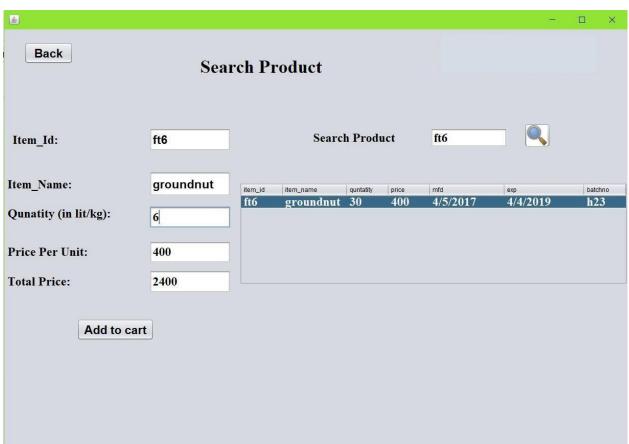
4. System Implementation

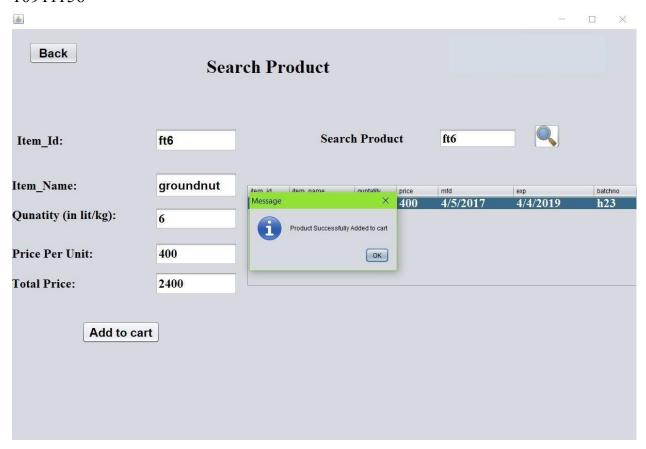


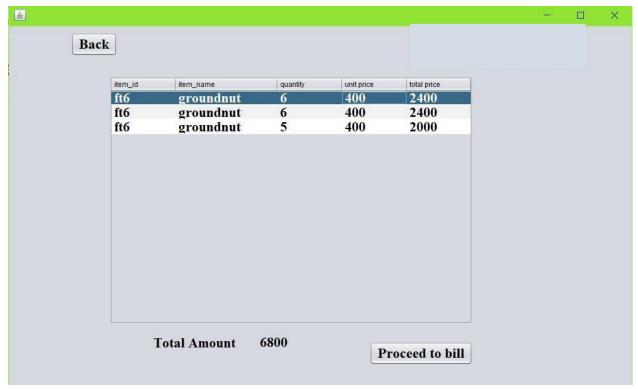
4.1 Output/Results



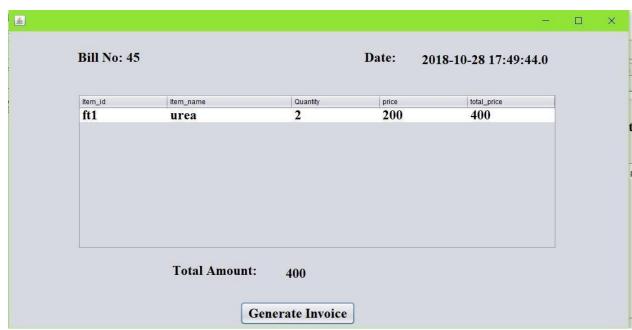


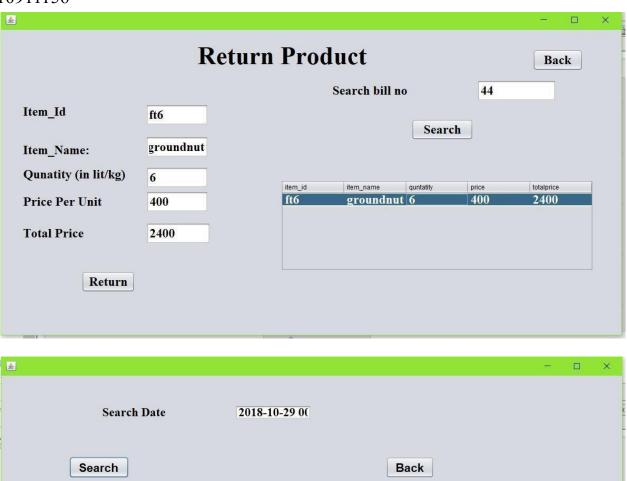












4.2 Discussion

In the future, a barcode scanner can be used to scan the merchandise. It is possible to create a system that will accept and deliver online orders from clients. With the use of feedback, the client relationship can be strengthened.

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5. Conclusion and Future Developments

In this project, we created a system that makes it simple for retailers to manage and sell their inventory. Marketing and sales, supply chain management, accounting and finance, and human resources are just a few

of the functional areas of ERP that are covered. So, using inventory management can aid in boosting the retailer's sales. Therefore, depending on demand, the necessary products can be purchased. In the future, a barcode scanner can be used to scan the merchandise. It is possible to create a system that will accept and deliver online orders from clients.

With the use of feedback, the client relationship can be strengthened.