Inventory Management System

##### 15SE328E Programming in PHP

##### PROJECT REPORT

###### ***Submitted by***

##### Archana H (RA1511003010447)

##### Adarsh Pradyut (RA1511003010473)

##### Shubham Verma (RA1511003010476)

***in partial fulfilment for the award of the degree***

***of***

**B.Tech**

*in*

# COMPUTER SCIENCE AND ENGINEERING



KATTANKULATHUR

##### APRIL 2018

**Abstract**

Inventory Management System is basically the method in which online shopping companies like Flipkart, Amazon and Snapdeal manage their items stock within their warehouses.

This project consists of three aspects of any basic Inventory System, i.e.

1. Administrator who has the access to every item threshold and he can add, remove or update the users accordingly
2. Supplier who supplies several items according to their characteristics like category, size, colour and quantity
3. Dealer who sells the particular items according to the quantity given by the supplier and the threshold set by the administrator

All of the Administrator, Supplier and Dealer have their own Login Usernames and Passwords which is set by the Administrator and the Supplier and Dealer can only access particular records of items within the Inventory.

Using this project we tried to show how different hierarchy levels of an Inventory System are related to each other, their respective roles and things Managed by them for efficient use of the Inventory.

We have used PHP to create main modules, along with HTML, CSS and JavaScript to modify the fonts and background.

MySql is used to create Database and store the values of items through PHP MyAdmin of XAMPP.

We have also used Validation Techniques to validate the data used and several other PHP features like GET, POST, Dialogue Box, Text Field, Label, Exception Handling, Headers, Footers and mysqli commands.

**Introduction**

Once the user entered with his own username and password, their respective index page will be opened in the dashboard.

Administrator can first login using his own username and password. He will then register the Dealer and Supplier by providing them their personal usernames and passwords to login in the system. He can then save the user based on his credentials.

He can also set the threshold of respective items supplied by the Supplier such that the minimum requirement for the number of items is fulfilled and the inventory won’t go empty.

Supplier’s role is to add items into the inventory whose information would be stored in the database visible to administrator, dealer and to the supplier himself.

There is also an interface between the Supplier and Dealer through which they communicate in order to meet the requirements of each other such that the items can be sold keeping the threshold for each item in mind.

Dealer is responsible for selling the products, thus removing them from the inventory and thus creating demands to the Supplier.

The Dealer will take orders and then forward this order to the Supplier such that the demands are met.

Dealer also has the real time data access of the Supplier Database Table such that the quantity of items is known to him.

**Requirements analysis**

**Hardware and Software Requirements :**

* Operating System : Windows XP or above
* RAM : 2GB or above
* Processor : Intel Pentium p4 or above
* Web Server : XAMPP or any other web server.
* Web Browser : Google Chrome /Mozilla Firefox / Microsoft Edge
* Text Editor : Notepad++ / Adobe Dreamweaver

**Functional Requirements :**

* User selection of Items
* User Login and Registration
* Languages Required : HTML/ CSS/ Javascript/ PHP.
* HTML and CSS were required to make the front end of the website.
* JavaScript was used to make the user validation while login and registration.
* PHP was used to create modules and to manage the database of the website.

**Existing System**

Existing system is a local one in which users are maintaining local databases to store the information like product details, Distributors details, purchases, sales details and accounts for every month. It is very difficult to maintain historical data and communicate with dealer, supplier and customers.

**DISADVANTAGES:**

The following are the disadvantages of the existing system

* It is difficult to maintain important information in local directory.
* More manual hours need to generate required reports.
* It is tedious to manage the communication among buyers, sellers and customers.

**Proposed System**

The Inventory Management System is a software application which avoids more manual hours that need to spend in local record keeping and generating reports. This application keeps the data in a centralized way which is available to all the users simultaneously (Administrator, Supplier and the Dealer). It is very easy to manage historical data in database. No specific training is required for the distributors to use this application. They can easily use the tool that decreases manual hours spending for normal things and hence increases the performance. It is very easy to record the information of online sales and purchases in the databases.

**Conclusion**

The package was designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project.

* + Centralisation and Automation of the entire system improves the efficiency in almost every aspect.
  + It provides a friendly graphical user interface which proves to be better when compared to the existing system.
  + It gives appropriate access to the authorized users depending on their permissions.
  + It effectively overcomes the delay in communications.
  + Updating of information becomes so easier.
  + System security, data security and reliability are the striking features.
  + The System has adequate scope for modification in future if it is necessary.

**References**

The following references were used :

* <https://www.w3schools.com/html/>
* <https://www.w3schools.com/css/default.asp>
* <https://www.w3schools.com/js/default.asp>
* <https://www.w3schools.com/sql/default.asp>
* <https://www.w3schools.com/php/default.asp>
* [Learn to Code - Building your First Page](http://learn.shayhowe.com/html-css/building-your-first-web-page/)
* <https://www.tutorialspoint.com>