

INVENTORY MANAGEMENT SYSTEM

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Abstract : Inventory management is key factor in success of any organization. Inventory means any idle resource of an enterprise it also means stock on hand at a given time. As an element of supply chain management, Inventory management includes aspects such as controlling and overseeing ordering inventory, storage Inventory, and controlling the amount or product for sale. Inventory management is one of the basic problems in almost every small business. Before computer age Organizations manages its inventories by using Paperwork solutions were being used as inventory management tools.so that are not synchronized properly and duplication of data. the inventory reports such as maintenance process reports are also done manually and are recorded in papers that have not been organized into a single database, making those reports are vulnerable to a loss or corruption of data. This research paper is focused on various aspects of inventory management as well as the benefits of implementing inventory management in organization.

Keywords— Need of inventory, purpose of inventory, Inventory management

I. INTRODUCTION

The inventory management system manages the organization stock details like purchase, sales, remaining stock, balance sheets, bill generation and overall organization data Inventory management is the management of Inventory and stock. An Inventory Management System is an essential element in an organization. An organization also needs technology in order to improve the productivities to get the maximum output. earlier the small organization inventory has not properly organized. Most of the Inventory management are done by using a spreadsheet, which might cause unsynchronized and duplication of data. Moreover, the reports are saved in form of Hardcopy not saved in one single database. To overcome all these problems, we are proposed Inventory Management System which is maintain the whole data of an organization properly.

II. Purpose of holding Inventory

A. Purpose of Inventory

The purpose of inventory control is to efficiently manage the availability of stock for production, sales and delivery and services of a business to maximize the volume of business and profits.

The primary reason for holding stock is to generate revenue through the sale of goods and services. To avoid the risk of a stock-out occurring and the subsequent potential towards lost sales, a company will typically hold some level of stock on hand. This is generally referred to as buffer or safety stock.

B. Definition of management

Inventory management is a discipline primarily about specifying the shape and placement of stocked goods. It is required at different locations within a facility or within many locations of a supply network to precede the regular and planned course of production and stock of materials.

II. LITERATURE REVIEW

Inventory or stock is the goods and materials that a business holds for the ultimate goal of resale. Inventory management is a discipline primarily about specifying the shape and placement of stocked goods.

Inventory items are items are that are in control and management of the department in a usage period of more than one year (Hendrato 2005,p.2).

In the Government Regulation number 27 in the year of 2014, Inventory (inventory management) is an activity to perform data collection, recording, and reporting the results of the data collection State/Region. State Assets are all items purchased or obtained at the expense of the State Budget or derived from other legitimate acquisition.

A. Similar Approach

Previous research that has been done around this topic including a study that has been conducted by us. Inventory management is one of the basic problems in almost every small business. Before computer age Organizations manages its inventories by using Paperwork solutions were being used as inventory management tools.so that are not synchronized properly and duplication of data.

Previous research that has been done around this topic including a study that has been conducted by Arip Saripudin entitled 'Inventory Information System Procurement intranet on the Faculty of *Dirasa Islamiyah* Syarif Hidayatullah State Islamic University Jakarta'. The process of data collection use Microsoft Office and the result of this study is Inventory Procurement system based on intranet that simplify and accelerate the process of inventory and procurement.

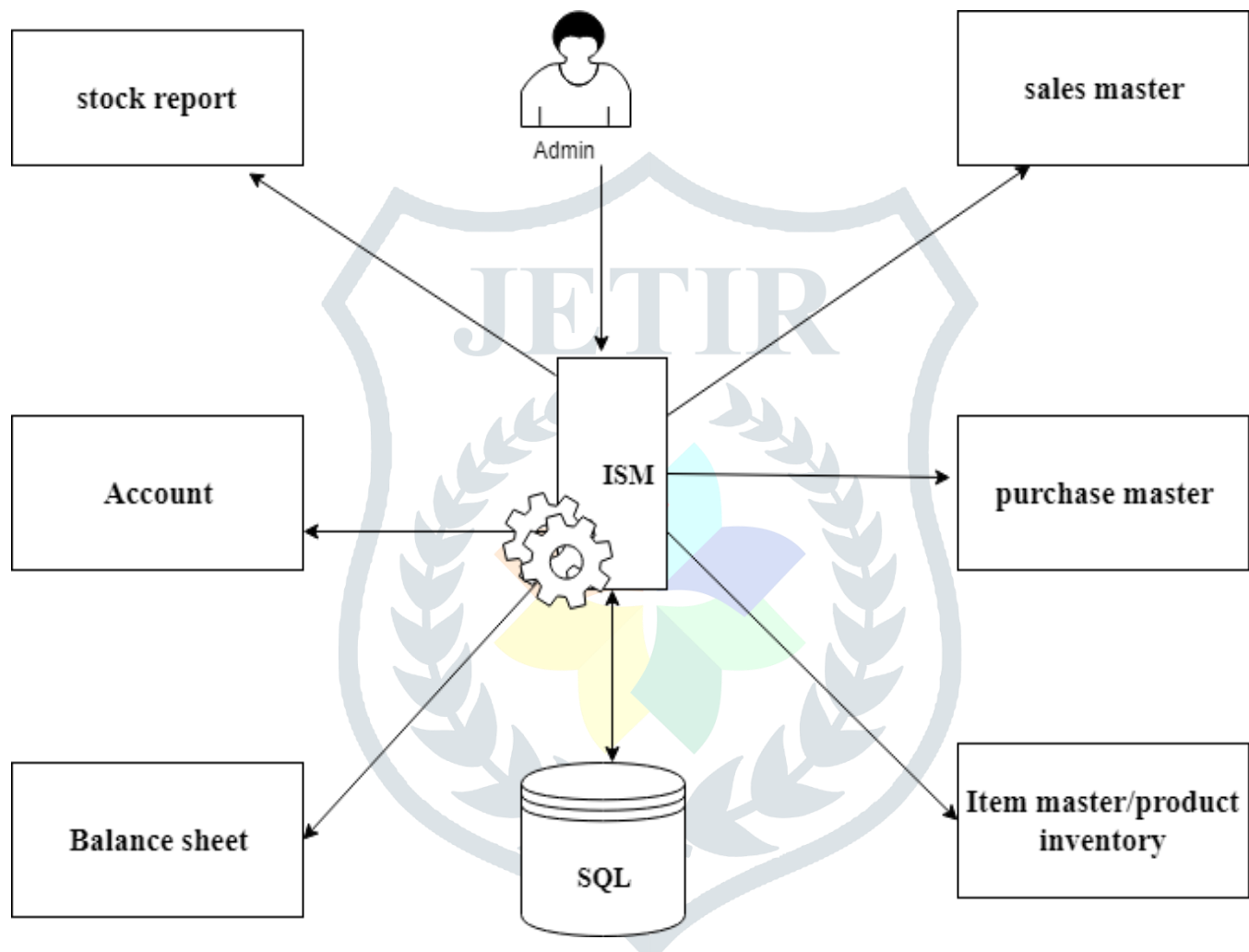
We went to a wholesale shops nearby area. There we actually had a look on the shop and entire products which were placed on the shelves accordingly. we spoke to the shop owner as well as the storekeeper and the employees too.

The shop owner explained us about the management of the shop in detail, regarding the stock maintenance, replenishments, customer maintenance policy, supplier, bill generation etc.

Later, he introduced us with their employee who actually worked on the system or we can say who access the system. The name of the software was (GO FRUGAL AND MIRACCLE).He explained us the process of that system right from the login page to the logout and backup process. He also told us about the current problems or errors faced by them while working on the system.

III. METHODOLOGY

Many small businesses use a basic method of inventory control called minimum stock levels. With this form of control, additional stock is ordered when your existing stock reaches a specified level. For example, a small business sets a minimum stock level of 40 units on an item that sells at an average rate of 100 units every five days. When the inventory reaches 40 units at the end of day three, the company orders additional stock.



A. Inventory : An inventory management system allows you to categorize your inventory by a number of fields for easy lookup and sorting of your merchandise. A typical inventory hierarchy would include Store, Dept., Class, Subclass, Item Description, Size, and Color. Most systems also offer extended inventory descriptions to track additional information such as alternate lookup and additional product descriptions. You can quickly search and sort your inventory to track quantity on hand and restock levels for each item in your inventory.

B.Purchase : An inventory management system will help you replenish items efficiently and negotiate lower vendor costs. You can quickly generate purchase orders and add items on the fly. Purchase orders can be created for standard items as well as matrix items (size and color). Purchase orders can be tracked by order date, receive date and cancel date so you can take the appropriate action on your open orders. Similarly, can generate invoice and report of the same.

C.purchase Master: Sales person added new item of product. The product contains those fields which are Item Code, Item Description, Price, Discount and Tax.

D.Sales: Sales person must register order to sell products. It manages Customer details, sales details and payment details.

E.Account: It manages all documents related to transactions, payment, bank details etc.

F.Report: It generates all kinds of report related to sales, purchase, transaction delivery etc. on weekly, monthly, yearly basis

IV. CONCLUSION

As we have seen in the Research Paper that Inventory Management is the most important factor in the success of any organization. Also, the analysis of Inventory Management highlighted that it improves Production Capacity as well as Time Management.

“Inventory Management System” desktop-based application developed for a supermarket or wholesale shops has been designed to reduce the time taken to handle the sales activity. It is designed to replace an existing manual record system for reducing time, taken for calculations and for storing data.

V. REFERENCES

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