

## International Journal of Research in Advanced Computer Science Engineering

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# **IMS – Accessing Data from Cloud Servers**

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#### ABSTRACT

This project is aimed at developing an Inventory Management System is software which is helpful for the businesses operate hardware stores, where storeowner keeps the records of sales and purchase. Mismanaged inventory means disappointed customers, too much cash tied up in warehouses and slower sales. This project eliminates the paper work, human faults, manual delay and speed up process. Inventory Management System will have the ability to track sales and available inventory, tells a storeowner when it's time to reorder and how much to purchase. Inventory Management System is a windows application developed for Windows operating systems which focused in the area of Inventory control and generates the various required reports.

#### **INTRODUCTION**

Inventory is defined as a stock or store of goods. These goods are maintained on hand at or near a business's location so that the firm may meet demand and fulfill its reason for existence. If the firm is a retail establishment, a customer may look elsewhere to have his or her needs satisfied if the firm does not have the required item in stock when the customer arrives. If the firm is a manufacturer, it must maintain some inventory of raw materials and work-in-process in order to keep the factory running. In addition, it must maintain some supply of finished goods in order to meet demand.

Sometimes, a firm may keep larger inventory than is necessary to meet demand and keep the factory running under current conditions of demand. If the firm exists in a volatile environment where demand is dynamic (i.e., rises and falls quickly), an on hand inventory could be maintained as a buffer against unexpected changes in demand. This buffer inventory also can serve to protect the firm if a supplier fails to deliver at the required time, or if the supplier's quality is found to be substandard upon inspection, either of which would otherwise leave the firm without the necessary raw materials. Other reasons for maintaining an unnecessarily large inventory include buying to take advantage of quantity discounts (i.e., the firm saves by buying in bulk), or ordering more in advance of an impending price increase. Inventory is the supply of raw materials, partially finished goods called work-in progress and finished goods, an organization maintains to meet its operational needs. It represents a sizeable investment and a potential source of waste that needs to be carefully controlled. Inventory is defined as a stock of goods that is maintained by a

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business in anticipation of some future demand. The quantity to which inventory must fall in order to signal that an order must be placed to replenish an item. Using an extension of a standard inventory-dependent demand model provide a convenient characterization of products that require early replenishment. The optimal cycle time is largely governed by the conventional trade-off between ordering and holding costs, where as the reorder point relates to a promotions-oriented cost-benefit perspective.



The optimal policy yields significantly higher profits than cost based inventory policies, underscoring the importance of profit-driven inventory management. To work towards perfect order metrics, there has to be aggressive inventory management, restructuring supply chain operations, and updating standards to the perfect standard. When updating the metrics, this would include the cases shipped vs. the orders on-time delivery, days in supply, the ordering time cycle, and shelf level of service. Inventory problems of too great or too small quantities on hand can cause business failures. If an organization experiences stock result. Inventory management indicates the The inventory management technique is more useful in determine the inventory and finding answers to problem of safety stock and lead time. Inventor management has become highly corporate entities and t feature.

#### SYSTEM FEASIBILITY

The feasibility of the project is analyzed in this phase and business proposal is put forth with a very general plan for the project and some cost estimates. During system analysis the feasibility study of the proposed system is to be carried out. This is to ensure that the proposed system is not a burden to the company. For feasibility analysis, some understanding of the major requirements for the system is essential. Three key considerations involved in the feasibility analysis are

- ECONOMICAL FEASIBILITY
- TECHNICAL FEASIBILITY
- SOCIAL FEASIBILITY

#### ECONOMICAL FEASIBILITY

This study is carried out to check the economic impact that the system will have on the organization. The amount of fund that the company can pour into the research and development of the system is limited. The expenditures must be justified. Thus the developed system as well within the budget and this was achieved because most of the technologies used are freely available. Only the customized products had to be purchased.

### **TECHNICAL FEASIBILITY**

This study is carried out to check the technical feasibility, that is, the technical requirements of the system. Any system developed must not have a high demand on the available technical resources. This will lead to high demands on the available technical resources. This will lead to high demands being placed on the client. The developed system must have a modest requirement, as only minimal or null changes are required for implementing this system.

#### SOCIAL FEASIBILITY

The aspect of study is to check the level of acceptance of the system by the user. This includes the process of training the user to use the system efficiently. The user must not feel threatened by the system, instead must accept it as a necessity. The level of acceptance by the users solely depends on the methods that are employed to educate the user about the system and to make him familiar with it. His level of confidence must be raised so that he is also able to make some constructive criticism, which is welcomed, as he is the final user of the system.

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### SYSTEM REQUIREMENTS

#### **Hardware Requirements**

System: Pentium 4 2.4 GHz, Hard Disk: 40 GB, Monitor: 15 VGA Color, Mouse: Logitech, Ram: 512 Mb

#### **Software Requirements**

Operating System: WindowsXP/10, Coding Language: HTML/CSS/PHP, IDE: Xampp Server

#### **TEST CASES**



#### SYSTEM DESIGN SYSTEM ARCHITECTURE EXAMPLE



### **DATA FLOW DIAGRAM**

• The DFD is also called as bubble chart. It is a simple graphical formalism that can be used to represent a system in terms of input data to the system, various processing carried out on this data, and the output dat system.

- The data flow diagram (DFD) is one of the most important modeling tools. It is used to model the system components. These components are the system process, the data used by the process, an external entity that interacts with system and the information flows in the system.
- DFD shows how the information moves through the system and how it is modified by a series of transformations. It is a graphical technique that depicts information flow and the transformations that are ap input to output.
- DFD is also known as bubble chart. A DFD may be used to represent a system at any level of abstraction. DFD may be partitioned into levels that represent increasing information flow and functional detail.

Level 0, 1 and 2 DFD for Inventory Management System





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## **USE CASE DIAGRAM**



#### **ACTIVITY DIAGRAM**



### IMPLEMENTATION MODULES

- Transactions
- Storage Sections
- Categories
- Suppliers
- Items
- Batches

## SAMPLE CODE

Setup.php <?php error\_reporting(E\_ERROR E\_WARNING E\_PARSE); if(function\_exists('set\_magic\_quotes\_runtime')) @set\_magic\_quotes\_runtime(0); \$curr\_dir = dirname(\_\_FILE\_\_); include("\$curr\_dir/settings-manager.php"); include("\$curr\_dir/defaultLang.php"); include("\$curr\_dir/language.php"); include("\$curr\_dir/db.php"); \$submit = \$test = \$form = \$finish = false; (isset(\$\_POST['submit']) ? \$submit = true : (isset(\$\_POST['test']) ? \$test = true : (isset(\$\_GET['show-form']) ? \$form = true : (isset(\$\_GET['finish']) ? \$finish = true : false))));

All the test cases mentioned above passed successfully. No defects encountered. Programming of Digital execute according to code it will run.

## **SETUP DATA**



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### TRANSATIONS PAGE



#### **SUPPLIERS PAGE**



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## CONCLUSION

Inventory Management has to do with keeping accurate records of goods that are ready for shipment. This often means having enough stock of goods to inventory totals as well has subtracting the most recent shipment of finished goods to buyers. Inventory Management is important for keeping costs down, while meeting regulation. Supply and demand is a delicate balance, and inventory management hopes to ensure that the balance is undisturbed. Highly trained Inventory Management and high – quality software will make Inventory management success. The system was mainly designed to reduce the manual work of updating and tracking and also make it easier for the user.

It also provides flexible and powerful reports regarding customer details, issues details and stock details. Inventory Management system using distributed system approach is using client-server concept. All data which key is by specialist engineer will be kept in a database which is located in server. The server will retrieve data and sent to client when there is a need or requested by users. As a conclusion chapter one is about the project background, problem statements, objectives, scope, and expected output of the project. Next chapter is about to search related materials of existing system. With the materials, one will get some ideas from that and make improvements on to be systems. Thus Inventory System was implemented successfully.

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