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Inventory Management System in Computer Networks

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ABSTRACT

Inventory Management System is software architecture which is helpful for different types of application. Eg: To manage data coming to Computer through Internet, maintain hardware stores, where system keeps the records of incoming and dropping or loss of data. Mismanaged inventory means disappointment of losing data which cannot be handled at the computer server, too much cash data tied up in warehouses and slower rate of transmission due to network traffic. This project eliminates the paper work, human faults, manual delay and speed up process. Inventory Management System for computers will have the ability to track incoming and available inventory space for handling data at the server gateway, tells an inventory holder when it's time to reorder and how much space to handle data at inventory gateway. Inventory Management System in computer network is a windows application developed for Windows operating systems which focused in the area of Inventory control and generates the various required reports.

1. Introduction

Compared to larger data handling systems with more physical space, in smaller servers, the data may go directly to the inventory handling area where data will wait for the server to receive it, and if the data maintains FIFO based inventory, then the data warehouse may be used rather than raw data or data packets. The data maintained are then pulled from the warehouse areas and moved to the hardware gateway where data is accepted by the system. Inventory management uses a variety of data to keep track of data as they move through the process, including lot numbers, serial numbers, data packet number, the travel path, the gateway used, the router through it travelled, IP address and the dates when they move through the process. Almost 80% of cash data is allocated for the stock in an undertaking. Data Management system with Inventory Management is identified with arranging, securing, putting away and giving the suitable and right quality of data, proper encryption and decryption of data of right amount at correct place in opportune time in order to co-ordinate and calendar the creation movement in an integrative route for a mechanical endeavour. Stock administration is required at various areas inside a server or inside different areas of a system to maintain the customary and arranged course of generation against the arbitrary unsettling influence of coming up short on Inventory data.

1.1 Movement of data at Inventory

The movement of data at the server is very critical. One has to create better understanding in redefining requirement of Computer Network Server for data at Inventory. Hopefully in the future requirement same data is required for its further significant contribution in new idea development.

1.2 Problem

Generating backup data is a critical process in a project for our network. This work can be categorized as time consuming job and need high accuracy when placing the proper network hardware in combination with software and in altogether how much data must be maintained at the hardware gateway. Also, how to handle the duplication of data with its quantity. Moreover, the project scalability itself will increase the risk so of processing time for which data to allow at the server and which data to drop down and hence can make us loose the control when there is a lot of revision, like drop and insert, that being made. Since this is for the first time we create the automation, there are so many updates and requirements that might not defined properly. Thus the purpose of this paper is to review and redefine the automation's requirements from basic like:

- What type of servers required?
- What should be the type of Network?
- How to handle data at inventory (FIFO, LIFO or any other)?
- How can we fulfil the DWH (Data Ware House) techniques?
- What is our limitation for Inventory requirements?

1.3 Solution

The requirement is to create backup inventory within limited time and in high accuracy that helpus in making with automation solution by using desktop. Due to Backup of data, we think that this is the based solution. Here Backup will be nothing but Data Ware House where both raw data and finished data both will be stored which will help in data retrieval. This process of data retrieval will be very easy and safe. However, it might need some improvement in the future based on the lesson learned so is the new requirement.

2. Objectives

- To find out the optimum level of inventory of data to be ordered at a point of time.
- To study the inventory management system in computer server based on size of the project, type of the structure, existing management principles, existing hardware, memory size, Cash memory, network type, CSMA-CD, CSMA-CA.

3. Methodology

Our Research strategy for data handling techniques at the computer server can be characterized as efficient and purposive on available resources of actualities with a goal deciding the powerful relationship among such certainties and research between at least two wonders from the broad writing study it is much clearer to contribute specifically for the effective consumption of the data, impact by stock administration framework. This will cause effect on execution of the stock administration system.

To yield a coveted execution, it is important to guarantee the task work successfully. Poll study was directed among development experts to distinguish their feeling towards data administration framework in networks. This will give information to discover the recurrence of reaction for different types of Inventory management methods.

4. Scope of the Study

This worries the barely recognizable differences between renewal lead time, conveying expenses of data to stock, hardware cost, type of Inventory for DWH (Data Ware House), resource administration, stock estimating, stock valuation, stock deceivability, future data value gauging, physical stock, accessible physical space for stock, quality administration, recharging, returns and deficient merchandise and request anticipating and furthermore by recharging or can be characterized as the forgotten load of anything utilized as a part of an association.

5. Application

The procedure of data is proportionality almost fitting for data inventories that stay inconspicuous by the main server, rather than "keep full" network frameworks where a client might want to see full retires of the data that they submit through internet so as not to think they are submitting something as data multiple times, undesirable data and separated from the "trigger point" frameworks where data is reordered when it hits a specific level; data stock proportionality is utilized viably by without a moment to spare assembling procedures.

6. Conclusion

This paper presents an alarm about the information section in the data handling techniques through Inventory Management which in view of desktop application software. It's a straightforward desktop application in which the network to the immediate distribution center with the goal that information ought to be refreshed every time the data is fired from the client for the confirmation. It's a secure application in which the no information spillage from the warehouse room. Furthermore it gives one table organization so that after the finish of time limit we know about what are we holding in the Data Ware House.

References

1. Jignesh P Shah, “The Strategic role of Data Warehousing technology in Decision Making”, Research Hub-International Multidisciplinary Research Journal (RHIMRJ), ISSN-2349-7637 Vol-2, Issue-1 January-2015.
2. PunamKhobragade, RoshniSelokar, Rina Maraskolhe, Prof.ManjushaTalmale “Research Paper On Inventory Management System”, International Research Journal Of Engineering and Technology (IRJET), e-ISSN: 2395-0056 p-ISSN: 2395-0072, pp.252-254.
3. Aditya A. Pande, S.Sabihuddin, “Study of Material Management Techniques on Construction Project”, International Journal of Informative & Futuristic Research, ISSN: 2347-1697, Vol.2 (3), May 2015, pp.3479-3486.
4. S.AngelRaphella, S.Gomathi Nathan and G.Chitra, “Inventory Management- A Case Study”, International Journal of Emerging Research in Management &Technology, ISSN: 2278-9359, Vol.3 (3) June 2014, pp.94-102.
5. Ashwini R.Patil, Smita V. Pataskar, “Analyzing Material Management Techniques on Construction Project”, International Journal of Engineering and InnovativeTechnology (IJEIT), Vol.3 (4), Jan 2013, pp.96-100.
6. Dipak P. Patil, Pankaj P. Bhangale, Swapnil S.Kulkarni, “Study of Cost Control on Construction Project”, International Journal of Advanced Engineering Research and Studies, Vol.02, April 2014, ISSN2249–8974.
7. P.G. Matsebatlela and K. Mpofu, “Inventory Management Framework to Minimize Supply and Demand Mismatch on a Manufacturing Organization”, International Federation of Automatic Control, Vol.3, No.48, Mar 2015, pp-260- 265. International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 05 Issue: 04 | Apr-2018 www.irjet.net p-ISSN: 2395-0072 © 2018, IRJET | Impact Factor value: 6.171 | ISO 9001:2008 Certified Journal, Page 254.
8. SayaliShet, Raju Narwade, “An Empirical Case Study Of Material Management In Construction Of Industrial Building By Using Various Techniques”, International Journal of Civil Engineering and Technology, Vol. 12 (09), April 2015, pp.393-400.
9. "Inventory Management Software". EGA Futura. Retrieved 23 November 2012.

