International Journal of Scientific Research in Engineering and Management (IJSREM)
Volume: 08 Issue: 07 | July - 2024 SJIF Rating: 8.448 ISSN: 2582-3930

INVOICE MANAGEMENT SYSTEM

[1] YASHODHA PUTTAPPA GANJI, [2] SAI HARIKA D

[1].Assistant professor ,Department of MCA ,BIET ,Davangere[2].Student,

Department of MCA, BIET, Davangere

ABSTRACT

Invoice Management System is a total management and informative system, which provides the up-to-date information of all the Invoice Management in the company by presenting the customized reports, which helps in effective and timely utilization of the hardware and the software resources. Invoice Management System is a Web based application using the three tier architecture. The ability to handle the multi-user environment and the maintaining the highest security for the access are some of the features of this application. Invoice System uses MYSQL as the back end for the database and uses all its features offered in the web based technology for its transactions. Invoice System uses the Java as the middle ware for its business logic implementation.

Keywords: IMS , ACID ,

1. INTRODUCTION

A invoice Management System (IMS) is used to get up to date information of all the invoice resources in an organization. It is basically a management and informative system. This system helps the organization to overcome the complexity in tracing out all the invoice resources of the organization by presenting customised reports, there by helps in effective and timely utilization of hardware and software resources.

A transaction to be atomic, it must execute completely or not at all. Consistency refers to the integrity of the underlying data store, consistency is ensured by seeing that a transaction is atomic, isolated and durable. Isolated refers to allowing a transaction to execute without interference from other processes or transactions, i.e., the data that a transaction accesses cannot be affected by any other part of the system until the transaction or unit-of work is completed. Durability means that all the data changes made during the course of a transaction must be written to some type of physical storage before the transaction is successfully completed. This ensures that the changes are

not lost if the system crashes. Apart from handling the ACID properties MYSQL has higher security level and web compatibility features.

Invoice Management System (IM) is a total management and informative system, which provides the up-to date information of all the invoice resources in the company. IMS helps the company to overcome it's difficulty in tracking the resources of the company by presenting the customized reports, which helps in effective and timely utilization of the hardware and the software resources. Invoice Management System uses the Enterprise JavaBeans Version 1.1, it's the component model for the enterprise applications. Enterprise JavaBeans combines server-side components with distributed object technologies such as Java RMI to greatly simplify the task of application development. The EJB automatically takes into account many of the requirements of business systems: security, resource pooling, persistence, concurrency and transactional integrity.

2. LITERATURE REVIEW

This literature review explores the effectiveness of invoice management systems in managing invoices within companies. By analyzing existing research, this review examines the impact of such systems on efficiency, accuracy, and cost- effectiveness in invoice management. It identifies key factors influencing successful implementation and highlights areas for future research and improvement.

This review synthesizes literature on the integration of invoice systems with invoice management processes. It investigates the benefits and challenges of integrating these systems, including improved data accuracy, streamlined workflows, and enhanced financial control. The review also discusses various implementation strategies and technologies to optimize the integration process.

This literature review examines how invoice systems contribute to the improvement of invoice management practices within organizations. Through an analysis of relevant studies, it identifies the mechanisms through which these systems facilitate invoice tracking, processing, and reconciliation. The review also discusses the implications for organizational efficiency and financial management.

This review evaluates the challenges associated with implementing invoice systems for invoice management and explores potential solutions. Drawing on existing literature, it identifies common implementation barriers such as data integration issues, staff resistance, and system compatibility concerns. The review offers insights into best practices and strategies for overcoming these challenges to achieve successful implementation.

This literature review investigates the influence of invoicesystems on financial performance, specifically through improved invoice management processes. By analyzing empirical studies, the review assesses how these systems contribute to cost reduction, revenue optimization, and overall profitability. It also explores the indirect benefits, such as

enhanced supplier relationships and better cash flow management, resulting from streamlined invoice management.

3. EXISTING SYSTEM

Finding the current status or position of a component in the organization is a time-consuming process.
The Manager has to wait for the manual reports from the development dept. to know the current status of the resources.

DISADVANTAGES OF EXISTING SYSTEM:

In the present system there is no security for the details of the resources as any user who is not authenticated to view the records may see them.
To view the details of a invoice system and to know what are the components that are assigned to it, can be done only by a manual checking of that computer for the hardware and software components is a tedious process.
The users of the organization require various reports to be generated in an easy format, which is not so easy when done manually.
The Manager may get problems in finding out a user details in hundreds of records.

4. PROPOSED SYSTEM

The main objective of invoice Management System is to provide an automated system to maintain the resources of the company. To provide a user friendly and multi-user interface for handling the application.
To provide a user authentication and different interface depending upon the type of user logged in
To provide maximum level of security for the data.
To provide the necessary reports to various users in time.

ADVANTAGES OF PROPOSED SYSTEM:

User Friendly Interface.

Good Authentication for security purpose
Excellent level of security for the data.
Can avail reports to various users in time.

System Architecture

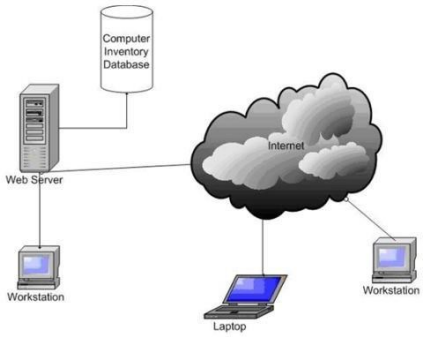

Fig 1. System Architecture

5.MODULE DESCRIPTION

Invoice Management System:

Invoice management software is a software system for tracking invoice levels, orders, sales and deliveries. It can also be used in the manufacturing industry to create a work order, bill of materials and other production- related documents. Companies use invoice management software to avoid product overstock and outages. It is a tool for

organizing invoice data that before was generally stored in hard-copy form or in spreadsheets. The key component of Invoice Management is Order management, Asset tracking, Service management, Product identification.

Administrative Module:

This module is used for insert, update and delete information of product. Then also monitoring all process of this System. In this Module Admin can purchase the products from Vendors and also can modify and delete the purchased product list. And also admin can sale a products to the customers. Admin can view the customers purchased details. Admin can view information of Vendor and Customer details and search any product details over the MYSQL database.

Integrated Invoice System:

To successfully implement a invoice System, it is necessary to integrate it within the everyday functions performed by company personnel. That is, when a user wants to order equipment or hardware, they would call up the Invoice Management System screen associated with Acquisition. The same types of processes should be available for Redeployment and Termination of assets.

Should a user request the acquisition of a specific type of asset then it would be possible for the invoice system to determine if the asset is already in surplus, or if it should be purchased under an existing Volume Purchase Agreement with a vendor.

6.RESULT

By doing the invoice System I have gained knowledge about the various functions of the system organization, I also gained a considerable knowledge about the development environment and the SDLC (Software Development Life Cycle). One more great advantage is that of moving with people i.e. the communication during the project development, both the informal communication and the formal communication regarding the project work. As part of invoice System development I learnt a lot about the reports that are useful to the various departments and also the frequency of generation of them.

7.CONCLUSION

The invoice System is a comprehensive management and informational tool designed to provide real-time updates on a company's resources. By generating customized reports, it ensures effective and timely utilization of both hardware and software assets. As a web-based application leveraging three-tier architecture, it supports a multi-user environment while maintaining high security for access. The system utilizes MYSQL for its database backend, exploiting all web-based technology features for efficient transactions. Java serves as the middleware for implementing business logic, ensuring robust and scalable performance. This system's architecture and technology choices make it a reliable solution for managing and optimizing IT resources.

REFERENCES

1. Chuck Musciano and Bill Kennedy (1998) “HTML: The Definitive Guide” O’Reilly & Associates Ltd
2. George Koch and Kevin Loney. (1997) “Oracle 8, The Complete Reference” Oracle Press Edition.
3. Herbert Schildt (2001) “The Complete C++ Reference” Tata McGraw-Hill Publishing Company Limited.
4. Matthew Siple. (1998) “The Complete Guide to Java Database Programming” Tata McGraw-Hill Publishing Company Limited.
5. Roger S. Pressman (1997) “Software Engineering, A Practitioner’s Approach” Tata McGraw-Hill Publishing Company Limited.