School of Engineering

Christian Brothers University

Study Title

**Invoice and Inventory Management System**

The Engineering Management Capstone Project

Submitted in Partial Fulfillment for the Degree of Master of Science in Computer Information Systems

By:

**Mohammed Yaqoob**

**Bala Rama Krishna Peddi**

Memphis, Tennessee

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Abstract of the project

This project is aimed at developing a Web-based application named **Invoice and Inventory Management System** for generating invoices and for managing the inventory system of any organization.

* The Invoice and Inventory Management System (IIMS) refers to the system and processes to manage the organization’s stock and generate invoices for customers with the involvement of a Technology system.
* This system can be used to create bills, store invoices, keep track of inventory details, maintain stock levels, update the inventory based on sales information, and produce sales and inventory reports on a daily or monthly basis. Individual components of the sales and inventory management system are categorized in this project.
* Different issues about direct sales management and purchasing management are being addressed in this system for organizations that handle transactions involving consumer items, an effective inventory and invoice management system is crucial. Without effective inventory management, a sizable retail or wholesale establishment can run out of products on a crucial item.
* A good inventory management system will alert the retailer and wholesaler when it is time to record. An automated Inventory Management System helps to minimize errors while recording the stock.

Introduction of the project

The project Invoice and Inventory Management System is a web-based application based on java technology using Eclipse IDE.

1. The project’s main aim is to develop Invoice and Inventory Management System Model software in which all the information regarding the stock and invoices of the organization will be presented.
2. It is a web-based desktop application that has an admin component to add customers, maintain the inventory system, create invoices, and manage the inventory.
3. The management of an organization's stock is the foundation of this web application. The application includes information on the organization's general profile, sales information, purchase information, and the stock that is still available. A provision exists for updating the inventory as well.
4. Along with the specifics of the transaction balance, this application also provides the stock's remaining balance. Each new stock is established, entitled with its name and the date of its initial trading, and it can also be changed whenever necessary by the transaction. Here, the login page is made to safeguard the organization's stock management from the threads and misuse of the inventory.

Problem statement

After analyzing many existing IIMS we have now the obvious vision of the project to

be developed. Before we started to build the application team had many challenges.

We defined our problem statement as:

* To make a Web-based application of IIMS for small organizations.
* To make the system easily managed and can be secured.
* To cover all the areas of IIMS like purchase details, sales details, and stock

management.

Tools and technology used.

Development Tools

* Microsoft Visual studio
* Eclipse IDE
* DBeaver for database management

Technologies used.

* Html
* CSS
* JavaScript
* React JS
* Java 1.8
* SQL Server
* Apache tomcat server.