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Enterprises Business Inventory Management System

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Abstract: ***GNR Enterprises Business Inventory Management System is high performance software which speeds up the operations of the organisation. Every organisation, which deals with the raw materials, put its great effort in the efficient utilization of its materials according to its need and requirement. The organisation has to perform number of tasks and operations in order to run its business in a manual system . It is an internet based web application to beneficial to any sector like Banking sector, Educational institute, Health care sector, small scale and large scale industries, etc. In Education institute lots of paper work is being done which is very time consuming and more manual resources needed to complete the task. Due to this all employee of institute facing many delay problems. In order to overcome these basic problems of institute we develop Online Inventory Management System. This Inventory project was develop with Java technologies and all details of employee, all materials name will be saved in the SQL back end without any data loss.***

I. INTRODUCTION

GNR Enterprises is a dynamic business that requires efficient and reliable systems to manage its operations. One of the most critical aspects of its operations is inventory management. The Inventory Management System (IMS) at GNR Enterprises is designed to streamline, automate, and optimize the tracking and control of inventory levels across various locations. This system helps ensure that the business can meet customer demand while minimizing costs and avoiding stock outs or overstock situations.

II. SOFTWARE ANALYSIS

Front End: HTML5, CSS3, Bootstrap

Back End: PHP, MYSQL

Control End: Angular Java Script

HTML5

HTML5 (Hypertext Markup Language 5) is a markup language used for structuring and presenting hypertext documents on the World Wide Web. It was the fifth and final major HTML version that is now a retired World Wide Web Consortium (W3C) recommendation. The current specification is known as the HTML Living Standard.

CSS3

CSS3 stands for Cascading Style Sheets Level 3. It is an advanced version of CSS, used for structuring, styling, and formatting web pages. CSS3 introduces several new features and is supported by all modern web browsers. One of the most significant advancements in CSS3 is the splitting of CSS standards into separate modules, making it simpler to learn and use.

BOOTSTRAP

Bootstrap is a free, open source front-end development framework for the creation of websites and web apps. Designed to enable responsive development of mobile-first websites, Bootstrap provides a collection of syntax for template designs.

PHP

The full form of PHP is **Hypertext Preprocessor**. It was abbreviated previously as **Personal Home Page**. It is a programming language widely used to build web applications or websites. It is the server-side scripting language encoded with HTML to develop Dynamic website, Static website or Web applications.

MYSQL

MySQL is a database management system.A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or the vast amounts of information in a corporate network. To add, access, and process data stored in a computer database, you need a database management system such as MySQL Server.

ANGULAR JAVASCRIPT

AngularJS is an open source JavaScript framework designed to build dynamic websites and rich internet applications (RIAs). The framework emerged in 2009 and is currently managed by Google. It extends the functionalities of HTML markup language as it goes beyond static sites to create interactive web apps.

III. EXISTING SYSTEM

- Its manual process for earlier system.
- Its more time consume for all process.
- Need for more resources.
- There is chance to lose record details..

PROPOSED SYSTEM

- Get full details of stock details and employee managemtn
- Daily Stock updates can be done. Remore access of application
- We can export our complete database.
- Its user friendly to accessing this system.
- We can send receipt through this system.
- It's responsive for user.
- We can search any category to this good details.

IV. MODULES

In this Ecommerce stock management system Admins are the Users of the Project.

Create/ Read Product –Employee of the Organization can Create and Read the details of the product at any time

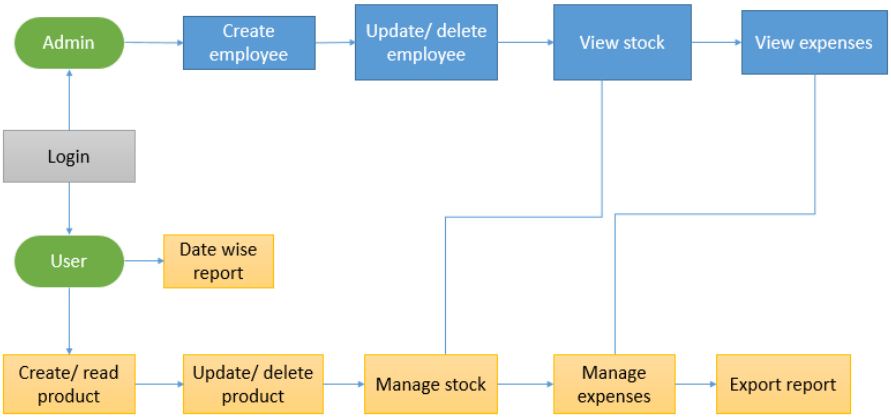
Update/Delete Product - Employee of the Organization can Update and Delete the details of the product at any time

Manage Stock – Employee can Create, Read, Update and Delete the Details of the Stock at any time for the management purpose

Manage Expenses – Employee can view and manage their expenses.

Report date - Administrators can view and manage their profit, income and expenses of a particular time period

ARCHITECTURE DIAGRAM



V. RESULT

The implementation of the Inventory Management System (IMS) at GNR Enterprises has yielded significant improvements in operational efficiency, cost management, and overall business performance. The integration of real-time tracking technology has drastically reduced errors in inventory counts. Automated stock updates ensure that inventory levels are accurate, leading to fewer stock outs or overstocking issues. By optimizing inventory levels and automating the reordering process, GNR Enterprises has successfully reduced excess inventory, lowering storage costs and minimizing wastage. The ability to forecast demand has further contributed to better cost management.

Streamlining inventory processes has led to faster order processing and more accurate order fulfilment. This reduction in manual work has resulted in better resource allocation and less operational downtime. Better With advanced analytics and real-time reporting features, GNR Enterprises can now make informed decisions about stock procurement, sales trends, and product lifecycle management. This has led to better forecasting and demand planning.

VI. CONCLUSION

The implementation of the Inventory Management System has transformed GNR Enterprises' approach to inventory control, driving greater operational efficiency, cost savings, and customer satisfaction. The system has positioned the company for continued growth by providing a robust, scalable solution for managing its expanding inventory needs.
Furthermore, the system's data-driven insights have empowered decision-makers with valuable information, leading to more informed choices about inventory procurement and product lifecycle management. This has positively impacted both internal operations and customer satisfaction, as faster, more accurate order fulfillment has resulted in improved delivery times and fewer stock outs.

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