DATABASE MANAGEMENT SYSTEM UCT402

Project Bid: Inventory Management and Billing system

Submitted To
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Problem Statement

To begin with ,Stats show that Globally, retailers recorded losses of a whopping $1.75 trillion due to mismanaged inventory. One of the problems faced by the businesses is that they do not have any systematic system to record and keep their inventory data , they are either managing their inventory on a spreadsheet or worse, not managing at all.

It is difficult for the admin to record the inventory data quickly and safely . Any business can use this inventory Management and billing system to enhance their record keeping system and optimize the management of the company.

Objective

- Optimizing Product Sales
- Aggregate the unorganized data to organized data in tabular format
- Web Application to help them fetch their data
- Convert the manual and physical records to computerized form.

Project Description

The project will consist of a login page for admin access only from where new filter parameters and users can be added and deleted. The authentication for the admin page is also through the login landing page. The admin will also be able to add new stocks, sales, orders. Also, there will be a login page for the customers from where they will get authorized and redirected to the home page. In the home page, the user will be able to view his current/previous orders.

The project will be able to print the hard copy of the bill in pdf form and send it to the registered email id.

The admin will also be able to see the growth of the business with help of sales analysis.

Technology to be Used

- Frontend- HTML, JavaScript, CSS, EJS
- Backend- NodeJS, Express
- Database- SQL+
- Platform-Visual Studio Code, Github

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Requirements

- An easy-to-use interface that doesn't require advanced training, support or documentation.
- Automation for eliminating manual processes of business functions related to inventory management.
- A reliable, secure database that provides accurate, real-time data.
- Performance that enables fast, actionable inventory monitoring and control.
- The ability for administrators to easily add software modules with minimal configuration so that the system is scalable.
- Software integrations and automated features that minimize manual inventory updates or inputs

Database Description

The schema will consist of different tables for storing brands, category, orders sizes, stocks and warehouse in which the programmes are being run

Application

This system can be used by any type of business for the management of their database for the people trained under their guidance.

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