STOCK TRACKER

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ABSTRACT

The system is made to easily monitor the inventory of a supermarket. The system is made in way the we can view which product under which category is selling more and which is not selling fast. The stock tracker system plays a vital role in the efficient operation of businesses across various industries. It enables organizations to monitor, track, and control their inventory levels, ensuring optimal stock availability while minimizing costs and avoiding stockouts. This abstract presents an overview of an advanced stock tracker system designed to streamline inventory-related processes, enhance accuracy, and improve overall efficiency.

The system's central feature is a user-friendly interface that empowers inventory managers to gain full visibility into their inventory levels, locations, and movements. They can efficiently monitor stock levels, set reorder points, and receive automated notifications for low inventory levels or expiring products, ensuring timely replenishment. The system also offers advanced forecasting capabilities, utilizing historical data and predictive algorithms to optimize inventory planning and minimize holding costs.

I. INTRODUCTION

The Stock Tracker is a software application used by businesses to manage their inventory levels, orders, sales. The system helps businesses to maintain accurate and up-to-date information about their inventory, which can include raw materials, finished goods, and supplies.

With stock tracker software, businesses can improve their efficiency and accuracy in managing inventory levels, reduce stockouts and overstocking, improve customer satisfaction with faster order fullfilment, and reduce the risk of errors in manual inventory tracking. It also enables businesses to make data-driven decisions based on real-time insights, helping them to optimize their inventory levels and supply chain processes.

The software typically includes features such as inventory tracking, stock monitoring, product category, product demand . Some advanced stock tracker systems also integrate with other business systems such as point-of-sale (POS) and accounting software, providing a more holistic view of the business operations.

Overall, stock tracker software can be a valuable tool for businesses of all sizes, helping them to streamline their operations, reduce costs, and improve their bottom line.

II. WORKFLOW

A Stock Tracker typically involves several steps to accurately record and manage stock related to shops. Here's a suggested workflow for stock tracker:

Category – The admin can add or manage the categories of the product.

Sub Category - The admin can add or manage the sub-categories of the product.

Brand – The admin can add or manage the brand of the product.

Product – The admin can add or manage the product.

Customer Details – The admin can see the customer details.

Inventory – Admin can see the inventory items.

Search Invoice – Admin can search the invoice of the product.

Report – Admin can generate the report of sales and stock

III.   PROPOSED SYSTEM

The Stock Tracker is a application which helps in inventory management and monitoring of stock. The system has user-friendly interface which makes it easy to use the application. The system has multiple modules such as add or manage category, sub-category, brand, product, and view reports.

SYSTEM OVERVIEW

The stock tracker system is made to monitor the stocks of a supermarket. The system has multiple modules such as category, sub-category, brand, product, inventory, cart, reports. The category module is used to add or manage new categories added, the sub-category is used to add or manage new sub-categories under category section, the brand section has the feature to add or manage the brands, the inventory module has view only mode which means we can only see what is currently present in the inventory, the report module is used to generate the stock report as well as the sales report.

The software utilizes modern technologies and features a user-friendly interface, making it accessible to both inventory managers and other relevant stakeholders. It integrates seamlessly with existing systems, such as point-of-sale (POS) terminals, barcode scanners, and supply chain management software, creating a unified ecosystem for efficient inventory management.
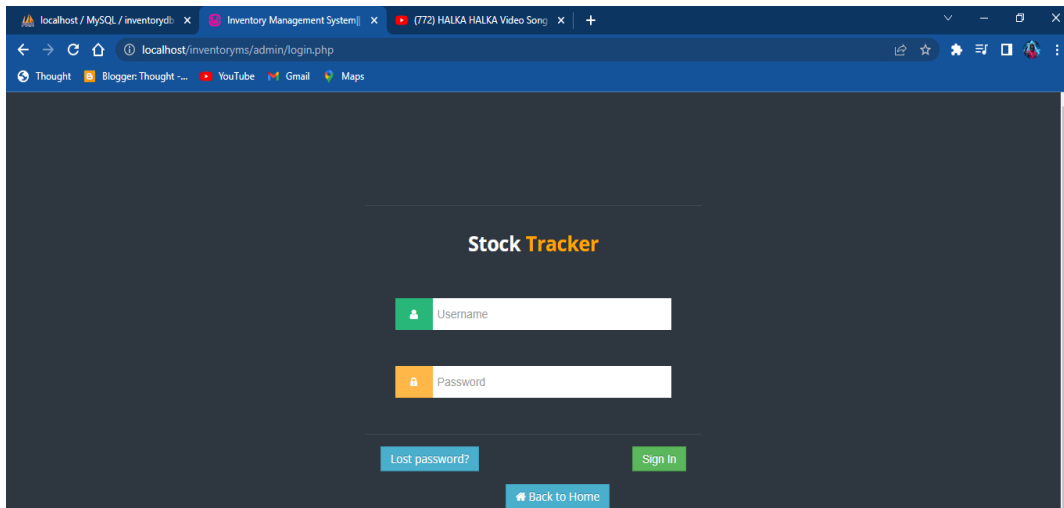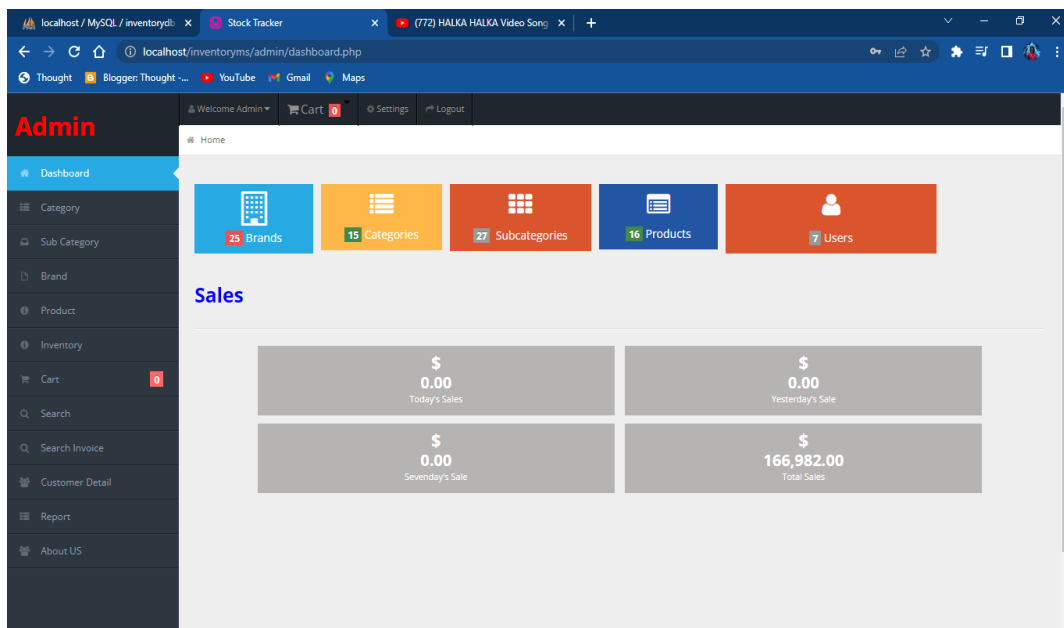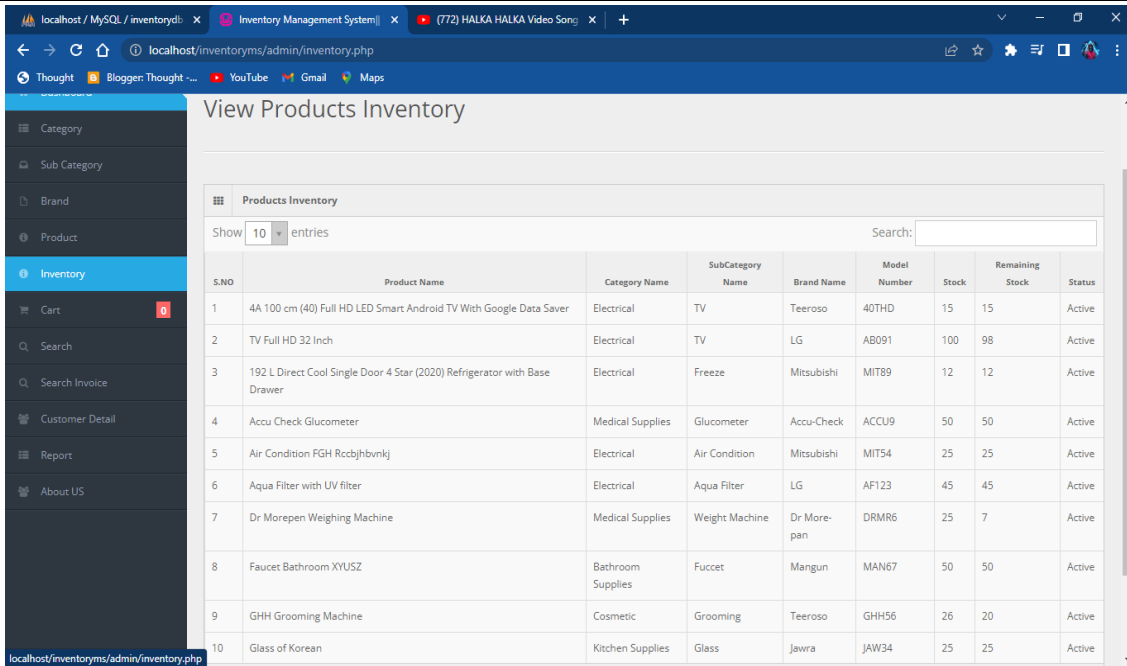

Figure 1: Authentication Page

Figure 2: Dashboard

Figure 3: Inventory View

IV.   CONCLUSION

In conclusion, a stock tracker plays a crucial role in effectively managing and analyzing stocks of a shop or superstore. By implementing a well-designed stock tracker, sales teams can streamline the process of recording and categorizing stock and it can help in increasing the productivity of the store. The proposed system includes features such as adding or managing the new category, sub category, brand, product and view sales report and products available in the inventory.

V.   FUTURE WORK

1. **Artificial Intelligence (AI) Integration**: The use of AI in inventory management can help businesses optimize inventory levels, reduce waste, and improve forecasting accuracy.

2. **Internet of Things (IoT) Integration**: IoT devices can be used to track inventory levels and automate inventory management processes, resulting in increased efficiency and accuracy.

3. **Mobile App Integration**: A mobile app can provide real-time inventory data and enable employees to manage inventory remotely, resulting in improved accessibility and flexibility.

4. **Cloud-Based Inventory Management**: Cloud-based inventory management systems can provide greater scalability, flexibility, and accessibility, allowing businesses to manage their inventory from anywhere.

5**. Integration with E-commerce Platforms**: Integration with e-commerce platforms can enable real-time inventory updates and order processing, resulting in improved customer service and increased sales.

6**. Blockchain Technology Integration**: The use of blockchain technology in inventory management can help improve transparency, traceability, and security of inventory data.

ACKNOWLEDGEMENT

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