

"Smart E-Business Decision Support System Leveraging Data Mining Techniques"

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ABSTRACT

In today's world, intelligent online business service is a procedure where buyers are buying goods and services from vendors directly on the net in real-time through the Internet without middle services. When the World Wide Web was sought after, vendors opted to vend them to individuals who browsed the Internet. Even the customer can approach an online shop directly from home and shop from anywhere in his own PC. It is quite simple for a consumer or a customer to purchase multiple products in online shops. In fact, a person can purchase anything he or she wants from multiple companies. People can locate all suppliers of goods in which they are interested and can contact them directly. But though smart business services are easy to use, not everybody will opt to buy goods or

services over the Internet. Smart business design is

extremely useful for online users in the future to purchase products online. The product is quite satisfactory to the individuals who purchased the products and the research project is beneficial for developing software that is convenient to use for the purchase of products online in the future.

Keywords: Distributors, Admin, Shop users, Sales record, Sales report, Inventory information

1. INTRODUCTION

The generation is highly convenient especially owing to wide digitization in the industry. Factories and even industries as well as companies have become networks with computer networks. The chief aim of this project is to do automatic shelving. This will be shelving on behalf of merchants,

Stuckists and distributors. As far as products such as biscuit, infant care, personal care, and hair care are concerned, it would ensure that the stress and difficulty in inventory management, investment analysis, ordering and maintenance tasks are minimized. Project East is a service oriented project aimed at reaching a number of buyer segments such as wholesalers, stockiest, and retailers. The software also effectively meets the user necessities coupled with the management of advertising strategies.

The retailers track their current business activities and determine possibilities to expand locally. They manage their own evidence and track the purchases made by consumers so as to deliver them on time. Retailers can also control details about inventory like stock availability and reorder level and the selection of products. Distributors are taken aback of all the registered information and tend to make their orders mostly through the nearest retailer. They could utilize the app to protect their personal data, inform the vendors when the products are on stock and assist them to order the products of local retailers, even though there is pressure associated with customer demands. Stuckists aid in achieving the corporate objectives

through management of the distribution and inventory in the chain In case of the application abuse, sellers or distributors may keep personal or corporate data unnecessarily. When properly applied, it ensures that merchants, distributors and stockiest have real-time, accurate product information and local buying options.

II. LITERATURE REVIEW

Wholesalers are businesses selling goods toward retailers, distributors, contractors, industrial institutions, or end users. The Office of International Trade of the U.S. Department of Commerce and the U.S. Industry and Trade Outlook of McGraw Hill Corporations make that definition. Wholesalers handle durable goods such as office supplies, furniture, together with industrial equipment, along with consumer goods like food, paper goods, chemicals, plus magazines not sold directly to customers. Manufacturers and their sales branches, as well as middlemen like agents, brokers, and commission agents, are the three primary types of wholesalers. Regardless of where inventory is sourced or shipped, wholesalers usually buy products and resell them, usually from one or more warehouses.

III. EXISTING SYSTEM

The prior system served as a guide. It took longer to finish all of the procedures because it was slower. It also needed more resources to function well.

There was no effective tracking system in place to help all employees communicate with one another. The system became less stable also more difficult to maintain.

It is just not able to then review the orders for the new products. Also, it cannot reveal the application's present state. This results in an unfinished procedure that mainly relies on user manual reviews.

The system's utility for sales insights is limited because it can only extract tabular data and cannot analyze purchasing patterns from the database without decision support tools. In order to physically inspect products and acquire them right away after making a purchase, many customers still prefer to shop offline. In today's cutthroat market, maintaining customer loyalty requires delivering quality, value, and satisfaction.

Customers frequently purchase multiple items at once, but they frequently lack an easy way to list and locate the products they want before making a purchase. products in advance would help them decide where to shop and make sure nothing is missed.

Shopping/buying in the current times involves travelling to market places and stores to purchase the products available

and mostly paying with cash since a number of the businesses do not all accept alternative payment methods.

The difficulty associated with this manual method is that it is not that easy. Customers have to physically go to the markets and expressive descriptions are the only source of information about products. This practice is cumbersome and time consuming. In addition, there are individuals who have difficulties in shopping efficiently due to a lack of available markets which are stocked properly. The proposed system allows customers to purchase their groceries online because they will not have to go to shopping centers.

IV. PROPOSED SYSTEM

This new plan involves all people-workers, suppliers and sellers in a large chain that even buyers are not left behind. It gives more with less. It is the initial in-depth examination of the on new system. It is now safer due to there being someone in charge to keep an eye on everything as opposed to the past. There are quite a lot of strong points in this new way as well as weak spots. The bright side is that it can earn more money It seeks to provide superior and precise information on simple pricing, products numbers and where to purchase, in order to manage the prices accurately. It

helps the system with smarter stock control. It ensures that purchase of the stock is made only of the best kind, minimizing old stock. This increases the profits and cash flow. What makes the good and right information to be available now is the fact that it is available in every aspect of the business, multiplies its smarts. It is because of this that possible problems and system-integrated events can be detected early on. It lets people tackle problems quickly. Using accurate inventory forecasts to schedule seasonal promotions and adjust to shifting market conditions increases customer satisfaction. By assisting with inventory forecasting, regulation, and management, the system also increases liquidity. Profits rise as a result of increased sales and productivity. Additionally, increased accuracy lowers mistakes and needless corrective measures. Better management of purchasing activities, cross-referencing demand and pricing, and easy access to current and projected costs all improve spending control.

V. IMPLEMENTATION

IMPLEMENTATION

ADVANTAGES:

Project implementation documentation facilitates idea organization, thought clarification, and improved comprehension of the overall strategy. It is possible to

effectively outline strategies, convey them to team members and senior management, and involve everyone in the process by promoting critical thinking. A clear implementation ensures that everyone involved is informed, reduces misunderstandings, and removes uncertainty by outlining what must be done, how it should be done, and who is responsible. Accountability for tasks and progress tracking are also made easier by this clarity. Cooperation between several people is necessary for successful execution, and effective teamwork creates synergy, which improves workflows and yields better outcomes. A well-thought-out, recorded, and tested plan also guarantees active participation from all important stakeholders. Senior leaders' involvement makes it easier to allocate resources effectively and keeps things running smoothly for the duration of the project.

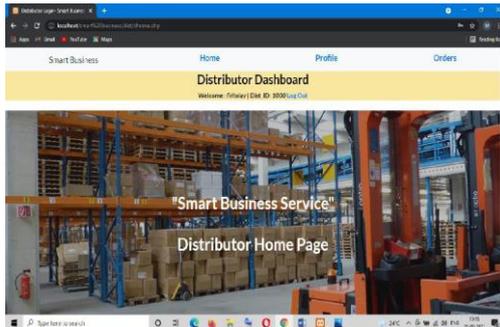
IMPLEMENTATION

COMPONENTS:

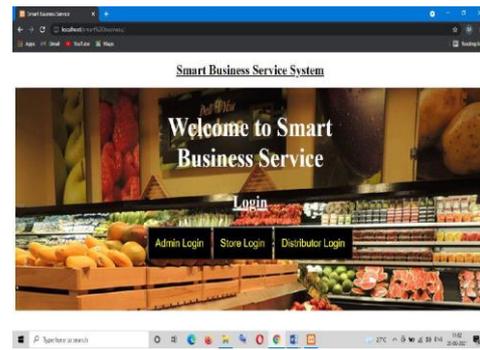
Initially, the project's objectives will be spelled out in detail, detailing the application's overall scope and what is to be accomplished. This will entail outlining the main goals in addition to the application's overarching vision and mission. Roles and responsibilities are allocated so as to guarantee clarity in regard to the tasks and

the actors that allow users to interact with the application simply and effectively. Additionally, a backup plan will be ready to handle unforeseen circumstances like tight deadlines, resource shortages, or budget overruns.

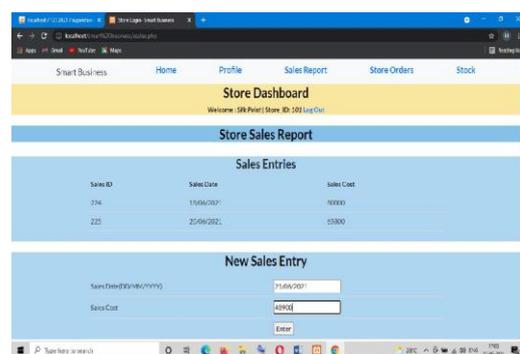
VI. RESULT



By entering a working admin ID and password, the administrator can access the system on this page. In order to access it securely, such specific credentials should be provided every time that the administrator desires to log in. First of all, this is a procedure that actually authenticates the identity of the administrator. Through this the administrator is thus validated. Only after it, access to the control panel or dashboard of the system is permitted. The system contributes to the maintenance of confidentiality, the prevention of unwanted entry, and protection of sensitive information as it guaranties the use of the right combination of ID and password each time it is used to access the system. The use of this authentication prevents unauthorized persons performing administrative duties.



The profile of the distributor appears depending on the specific ID distributor entered during the log-in procedure. Moreover, the distributor is able to alter or even amend the profile data that was earlier filled by one in the system. The relevant profile information of that account will pop up the next time a distributor accesses the account by using another distributor ID thereby ensuring only the information relevant to the logged-in distributor is visible and can be updated. It can enable distributors to manage data safely and ensure they have proper records.



When the store user wants to make new orders he/she can enter their appropriate distributor ID. This does make them visible all of the old orders either. Using this assistance, the store can find it easy to

initiate new sales when required and to track previous sales. The system will ensure accurate order processing, proper tracking and effective coordination between the stores and distributors because a distributor ID will be allocated to newly created orders.

VII.CONCLUSION

The Smart Business Service Project has successfully expanded to meet the growing market demand with the introduction of a new product that has transformed marketing tactics and enabled customers to purchase goods whenever and wherever they want while spending less time online. The project uses a simple build for better growth and care. It comes with a user-friendly interface fully made to match key rules. The system works well in all cases, and every part has been tested in full, using right and wrong data. Performance has exceeded early estimates, and restrictions have been effectively applied. Additionally, by rapidly giving information on concessions made to specific stakeholders, the system guarantees operational efficiency and transparency. With improved functionality, reliable performance, and an easy-to-use interface that will benefit both companies and users, the Smart Business Service Project is now

completely operational and ready to replace the antiquated system.

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