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Online Inventory Management and Billing System

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ABSTRACT: Research strategy can be characterized as efficient and purposive method to develop an entire application. The proper strategy deciding the method of design and implementation has higher chances of developing a application professionally. By the effective usage of available tools and software, the impact on stock and invoice administration framework creates a user-friendly environment with full customizations. To make a proper execution of the proposed work or application, it is important to guarantee that every task works successfully. Poll study helps to relate among the different aspects of the proposed work and the idea towards stock and invoice administration framework in the parallel methods. The information got is separated to discover the differences and similarities inside the proposed work. This proposed work is aimed at developing an online inventory and billing system for a departmental store. The proposed system can be used to manipulate the details of the inventory, customer, purchase, payment, etc. This is one integrated system that contains both the customer component and the admin component.

KEYWORDS: inventory and billing system, invoice, integrated system.

I. INTRODUCTION

The proposed work is to develop inventory and billing system model software during which all the data regarding the stock of the organization and invoice management are going to be presented. The work is an intranet-based application which has admin component to manage the inventory, billing, maintenance of the inventory and billing system. The application is predicated on the management of stock of a company and allocation of the invoice of the acquisition. the appliance contains general organization profile, sales details, purchase, purchase details, billing, invoicing and also the remaining stock that are presented within the organization. there's a provision of updating the inventory also. the appliance also provides the remaining balance of the stock similarly because the details of the balance of transaction.

Each new stock is made and entitled with the named and also the entry date of that stock and it may also be updating any time when required as per the transaction or the sales is returned just in case. Here the login page is made so as to safeguard the management of the stock of organization so as to stop it from the threads and misuse of the inventory. E-commerce is rapidgrowingplatform which is accepted and used business domains.

More and more business houses are implementing websites providing functionality for performing commercial transactions over the net. it's reasonable to mention that the method of shopping on the net is becoming common place. a web store may be a virtual store on the net where customers can browse the catalog and choose products of interest. the chosen items is also collected in a very cart. At checkout, the things within the cart are going to be presented as an order. At that point, more information are going to be needed to complete the transaction. Usually, the customer are going to be asked to fill or select a billing address, a shipping address, a shipping option, and payment information like a mastercard number.

An email notification is distributed to the customer as soon because the order is placed. Business conducted



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through the utilization of computers, telephones, fax machines, barcode readers, credit cards, automatic teller machine machines (ATM) or other electronic appliances (whether or not using the internet) without the exchange of paper-based documents. It includes activities like procurement, order entry, transaction processing, payment, authentication and non-repudiation, internal control, order fulfillment, and customer support. When a buyer pays with a charge card swiped through a magnetic-stripe-reader, he or she is participating in e-commerce.

With popular trends and demands the concept of the net because the way forward to extend profit margins, companies new and old are creating websites here and there. the importance for retailers to having an online site is that an online site is informational and transactional in nature. because the computer may be used for advertising, marketing, sales, customer support and packaging.

II. OVERVIEW

Products are recognized as the major resources for the business platform. The proposed work includes managing the product with appropriate way to review any time as per the requirement. Therefore, it is important to have a platform based IMBS which has the ability to generate reports and invoice, maintain the balance of the stock, details about the purchase and sales in the organization. Before developing the application, the work came up with two inventory management system existing in the market, which helps to give the knowledge for the development of our project. The application software is only used by the large organization but the proposed work came up with the application which can be used by the small company for managing their stock in the production houses.

III. EXISTING SYSTEM

After analyzing many existing IMBS the work is now the apparent vision of the project to be developed. Before the work started, developer had many challenges. The applications abundantly lagged within the multi-platform based system of IMBS for tiny organization. The systems are hard to be managed and secured. the present products cover particular set of features and most of them share the quality features of online shopping. These products are off the shelf and take time to customize or difficult to change. Manual systems are time consuming, because the business owner must keep track of Supermarket sales on a usual, while updating the system manually at the tip of the day.

A manual Supermarket system requires employees and managers to write down down every time an item is aloof from the Supermarket. If one employee forgets to say that the last coffee product has been aloof from the Supermarket, a manager expects the item to still be available for a customer during a procurement. Compared with a technical Supermarket system, a manual Supermarket system doesn't help the communication within the workplace. A manual Supermarket system doesn't provide any number, as all numbers from the Supermarket are gained through physical Supermarket counts. one in every of the difficulties of running a manual Supermarket system is that physical Supermarket counts must be performed frequently to manage the things within the Supermarket. this can be time consuming and might cost the business money, if employees must be available to assist out outside of business hours.

IV. PROPOSED SYSTEM

In order to overcome the existing problem, we are making this system as online where every information is got through the online system. The system has the ability to auto restock the products in the inventory. Integrating the proposed system with the existing business where the user doesn't have to change the details or start from the beginning. Main aim of the proposed work is developing an application in a manner such that it is compatible with all systems. It should enable feature options that should have password encryption and high protection levels.

Improving the productivity on daily basis and with other more functionalities. The application is used to show the stock remaining and details about the sales and purchase. It gives the data about the inventory on daily and weekly basis. As application starts the login page appears. The user admin login is matched by the username and password that has all the authorization to manipulate the inventory of the business as per needs. The system has its own capacity of creating its own invoicing format, creating a new system for invoicing the purchases. Mostly, it should have capability of searching over the entire application and adding an wish list that is helpful for the

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user so that they can see more on what they like. Buyers and sellers can get together through the online trading space, and in that way people can enjoy more and more convenient business services.

V. DATA FLOW DIAGRAMS

Figure 1.1 and figure 1.2 shows the graphic orientation of the interactions among the elements of the IMBS. It represents the methodology used in system analysis to identify, clarify and organize system requirements of IMBS. The main actors of the proposed work are admin, system admin, customer and prime customer, who perform the different type of use case such as manage bills, manage customer, manage transactions, manage invoice, manage login, manage payment and managing the full system operations.

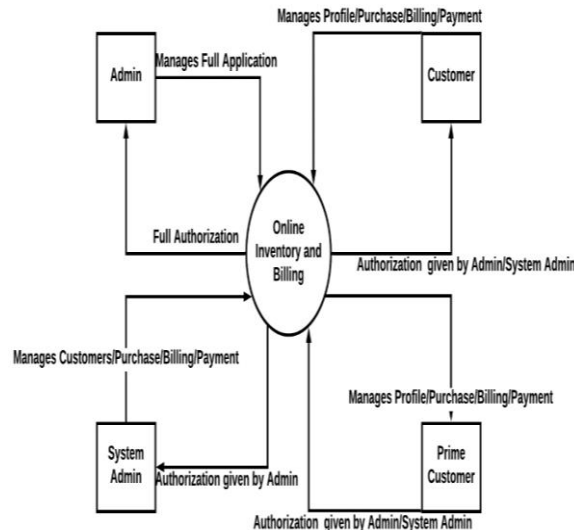


Figure 1.1: Data Flow Diagram (Level 0)

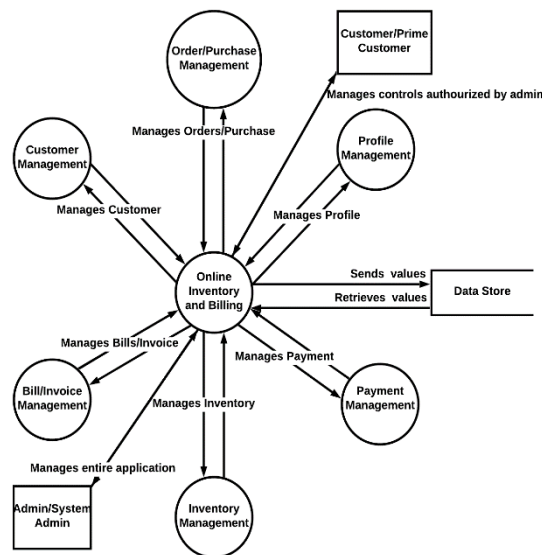


Figure 1.2: Data Flow Diagram (Level 1)

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Figure 1.1 and figure 1.2 clearly gives us an idea about how the data flows inside the inventory and billing system. The flow of data is the additional strength that gives us the security, efficiency, speed and accuracy.

VI. RESULTS AND DISCUSSION

The following figures shows the output of the proposed work, which runs under the IIS environment with the help of the web browser. The entire work is controlled by the IIS server where it can run on any system within a LAN (Local Area Network). It is also built and designed to be flexible for the versions of the system software and server configurations.

Figure 1.3 gives us the exact view of the home page with the navigation buttons of the proposed work and shows the proper entry page which is the master control over every page and navigation to login, registration, search bar and a slider image that changes every time.

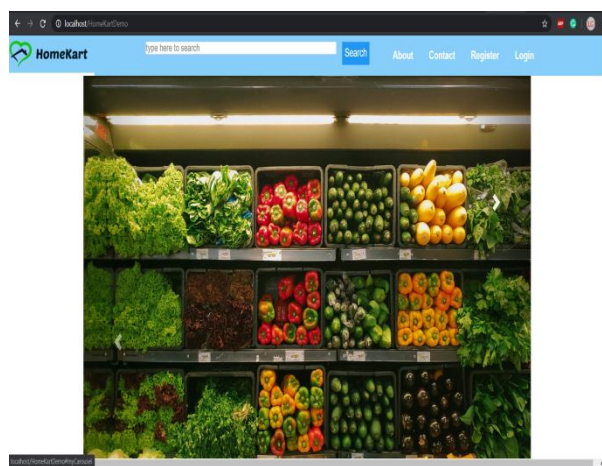


Figure 1.3: Home Page of IMBS

Figure 1.4 gives us the exact view of the registration page with the navigation buttons, search bar and the ability to register their accounts so that users can have their allocated authentications and authorizations of the proposed work.

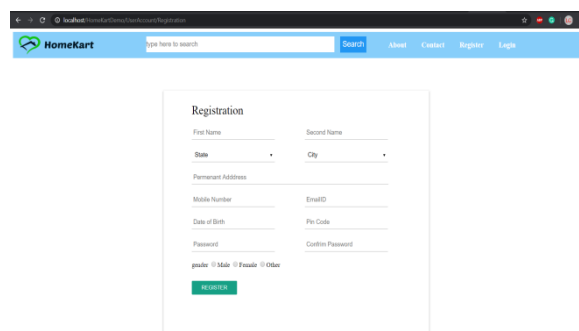


Figure 1.4: Registration Page of IMBS

Figure 1.5 gives us the exact view of the login page with the navigation buttons of the proposed work and the page acts as the login for every user that acts as the gateway for the entire application including admin and system admin.

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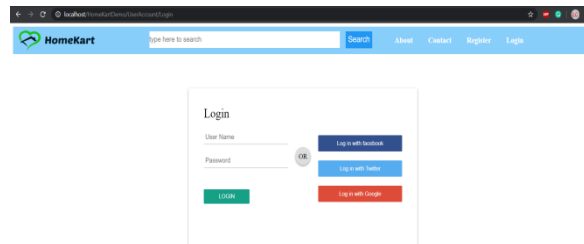


Figure 1.5: Login Page of IMBS

Figure 1.6 gives us the exact view of the admin page with customer manipulation and the navigation buttons consisting of search bar, change of buttons and also add, update, delete the customers of the proposed work.

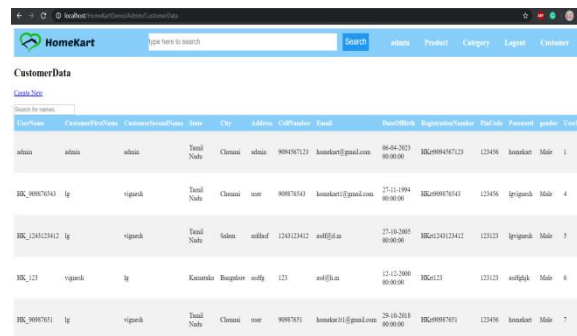


Figure 1.6: Admin Page (Customer Control) of IMBS

Figure 1.7 gives us the exact view of the admin page with product manipulation and the navigation buttons consisting of search bar, change of buttons and also add, update, delete the products of the proposed work.

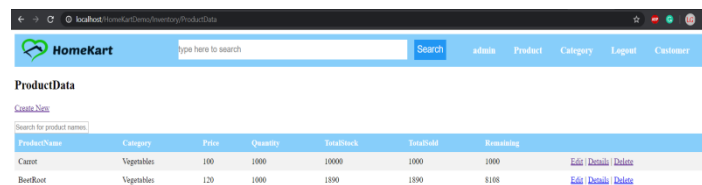


Figure 1.7: Admin Page (Product Control) of IMBS

Figure 1.8 gives us the exact view of the admin page with slider manipulation and the navigation buttons consisting of search bar, change of buttons and also add, update, delete the slider image of the proposed work.

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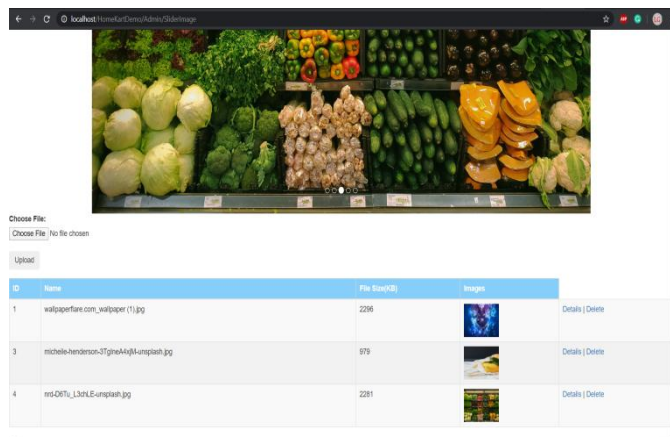


Figure 1.8: Admin Page (Slider Control) of IMBS

Figure 1.9 gives us the exact view of the error page with error date and the navigation buttons of the proposed work. Also it handles every exceptions and errors that are unhandled.

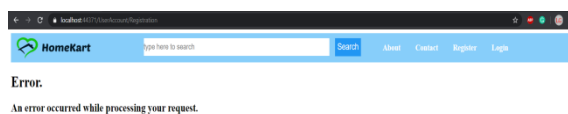


Figure 1.9: Error Page of IMBS

Figure 1.10 gives us the exact view of the customer home page with the navigation buttons of the proposed work and shows the proper entry page which is the master control over every page and navigation to customer details, contact, search bar.



Figure 6.8: Customer Home Page of IMBS



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The invoice, purchase and payment management gives us the exact view of their respective pages with the navigation buttons and have their master controls such as update, delete, insert and manipulate every details and customize every pages.

Internet has become a serious resource in modern business, thus electronic shopping inventory and invoicing has gained significance not only from the entrepreneur's but also from the customer's point of view. For the entrepreneur, electronic shopping generates new business opportunities and for the customer, it makes comparative shopping possible. As per a survey, most consumers of online stores are impulsive and typically make a call to remain on a site within the primary few seconds. "Website design is sort of a shop interior. If the shop looks poor or like many other shops the customer is presumably to skip to the opposite site". Hence, system have designed the project to supply the user with easy navigation, retrieval of knowledge and necessary feedback the maximum amount as possible. Making the software used for both mobile and computer application. They feasible structure also lead its thanks to billing software in malls and organizations.

VII. CONCLUSION

The proposed work is a simple hybrid multi-platform application basically suitable for all small to large organizations. It has every basic item which are used for every types of organization. The proposed work is successful in making the application where user can update, insert and delete the everything as per the requirement. The application also provides a simple report on daily basis to know the daily sales, invoice and purchase details. The application matches for every organizations that were limited by software and technology. Though it has some limitations, the proposed work strongly believes that the implementation of the system will surely benefit the organization.

The proposed work helps in understanding the creation of an interactive web page and the technologies used to implement it. The design of the work which includes Data Model and Process Model illustrates how the database is built with different tables, how the data is accessed and processed from the tables. The building of the project has given me a precise knowledge about how ASP.NET(Entity Framework) is used to develop a web application, how it connects to the database to access the data and how the data and web pages are modified to provide the user with a IMBS application.

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