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WEB BASED INVENTORY SYSTEM

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ABSTRACT: *This project “WEB BASED INVENTORY SYSTEM” is used to automate all process of the ACME pumps, which deals with Production, sales, purchases, and stock and employee details. The project is designed using Microsoft Visual Studio.Net 2010 as front end and Microsoft SQL Server 2008 as backend which works in .Net framework version4.0. The coding language used is C#.Net*

Keywords: *web based inventory system, sales, stock*

I. Introduction

The proposed system is a complete inventory tool for ACME pumps, which contains a feature with stock alert. Enterprise Resource Planning is complete management tool which performs product details, sales, billing and stock details etc. The proposed project maintains all relevant details about the industry such as product management, billing and reporting. The product management contains adding new product, updating the prices, and stock management of each product.

The admin can enter new products through the software. Stock maintenance will contain the following process

- Minimum stock detection

Stock alerts and important events will be sending to the admin through short message service (SMS) and Email. The process will send pre order mail to the supplier when the stock is low. Report generation is very easy in the proposed system. This contains the following report

- Sales (total sales by day, week, and month)

- customer reports
- Invoice reports
- Stock level etc.,

This project helps to maintain all the activities of the organization. This project is used to record its day-to-day transactions. This project reduces the manual calculation of stock details.

II. EXISTING SYSTEM

The existing system is purely manual system. Daily reports as well as transactions are maintained manually through ledgers. Calls and feedback and other report entries are entered manually in day books. Extensive amount of records has to be maintained to get a detailed vision on the reports. It takes lot of time for recording data. Paper work on the other hand is a cumbersome process. There are chances for errors and also updating of data is difficult. In order to overcome these problems, go for computerization. After carrying a small research, computer application voluminous data, multiple users and information requirements.

DRAWBACKS OF EXISTING SYSTEM:

- Time consuming
- Need more than power
- Generation of monthly reports takes a lot of time as it has been referred from various ledger
- Bulk amount of storage and paper
- Less security
- Accurate and up-to-date reports are not possible within a short span of time

III. PROPOSED SYSTEM

The system is developed using Microsoft C# .NET as front-end and SQL Server as back end. In this “**Web Based Inventory System**” memory utilization and I/O optimization can be achieved. The designing of screens is very much user friendly. Defect entry form was properly designed that it is very easy for novice user to work. Querying the database can be done whenever required properly in the proposed system. Data fields are in the normalized form thereby avoiding redundancy and inconsistency. The proposed system has been designed to eliminate the major disadvantages of the existing system.

The proposed inventory system is a fully integrated business management system which covers functional areas of an enterprise. It organizes and integrates operation processes and information flows, to make optimum use of resources such as men, material, money and machine.

The main advantage of the proposed ERP aims at one database, one application, and one user interface for the entire enterprise.

ADVANTAGES OF PROPOSED SYSTEM

- easy control of payment processing.
- Reduce paper documents
- Improves timeline information.
- Greater accuracy of information.
- Faster alerting system
- Better monitoring and quicker resolution.
- Helps to achieve advantage by improving its business process.
- Provides a customer database.

Modules

1. Admin authentication

This module is mainly based on admin. System will check the admin user name and password for authentication. After the verification for authorization the admin can be able to precede the process. All works are done under his control.

2. Customer details entry

This module covers the details about the peoples that who are all coming pump center. The details have been managed like a profile based or bio data-based concept. The details like id, name, gender, Date of birth, age, phone no, address, Email etc. Such these details are maintained

3. Item Details

Item Information like Item Name, price, code is recorded. Item details stores the opening stock, minimum and the maximum stock level for an item.

4. Production Item Details

In this module maintain the all item details such as item id, item name, quantity, quality, total amount and all. In this all information to be stored into item table. In this item table item id set as primary key.

5. Production order module

Production order module maintain all the production order information such as production order id, production product name, customer id, customer name, customer type, production order date, total quantity, quality, total amount and all. In this all information to be stored into production order table.

6. Sales Details

Sales Details of the Company are recorded, Sales Code, Company Name, Sales Date, Sales Amount, Item Name are recorded.

7. Stock details

In this stock details module shows the complete stock details of the pump industry.

8. Report Module

In this report module shows the all report such as production details, order details and all. Admin only can view the all report details.

IV. INPUT DESIGN and OUTPUT DESIGN

Input Design converts the user-oriented inputs to computer-based formats. Inaccurate input data are the most common cause of errors in data processing. Error data entered by the data operator can be controlled by the input design. The goal of designing input is to make the data entry easy, logical and as free from errors as much as possible.

The proposed system is completely menu-driven. It is a powerful tool for interactive design. It helps the user comprehend the range of alternatives available and also prevents them from making an invalid selection. All entry screens are interactive in nature. It has been designed taking into account all the constraints of the end-user.

Outputs are the most important and direct source of information to the customer and management. Intelligent output design will improve the system's relationship with the user and help in decision making. Outputs are used to make permanent hard copy of the results for later consultation. The output generated by the system is often regarded as the criteria for evaluating the performance of the system. The output design was based on the following factors.

- Usefulness determining the various outputs to be printed to the system user.
- Differentiating between the outputs to be displayed and those to be printed.
- The format for the presentation of the output.

For the proposed system, it is necessary that the output should be compatible with the existing manual reports. The outputs have been formatted with this consideration in mind. The outputs are obtained after all the phase, from the system can be displayed or can be produced in the hard copy. The hard copy is highly preferred since it can be used by the controller section for future reference and it can be used for maintaining the record.

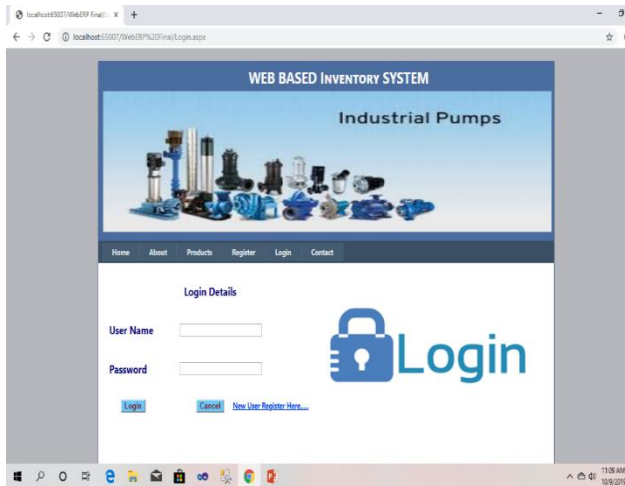


Figure 1: Login page for Admin

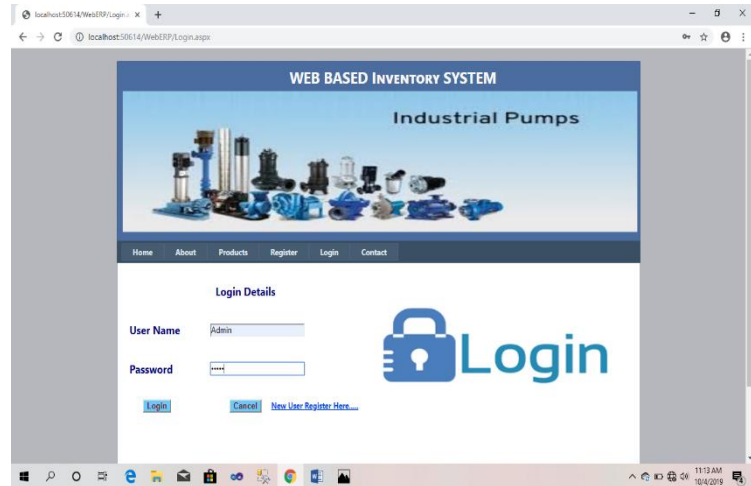


Figure 2: admin can manage Admin portal

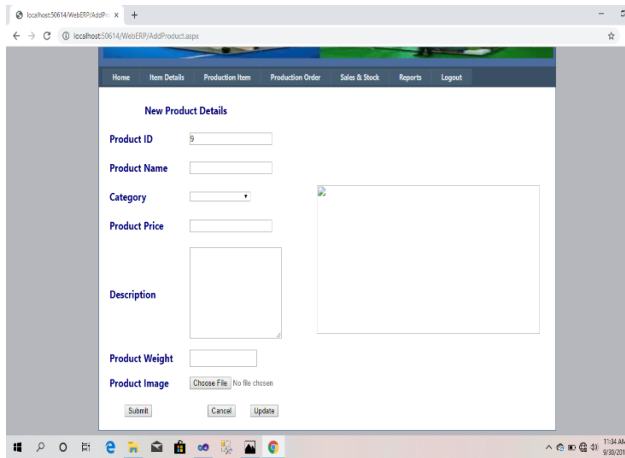


Figure 3: Page for adding new product

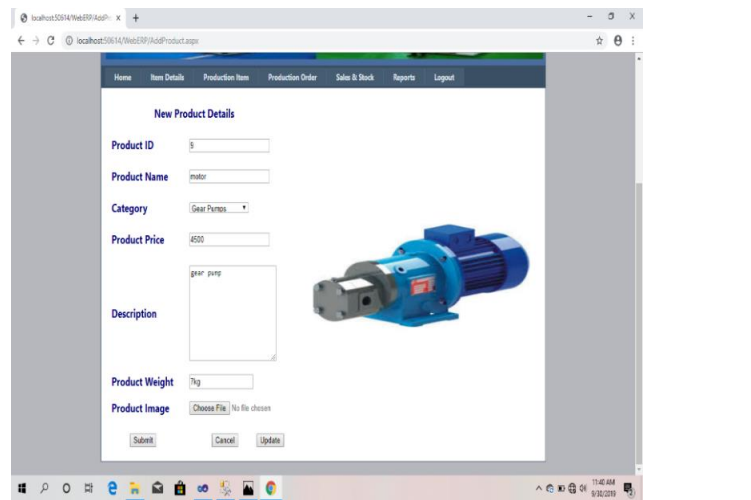


figure 4: Admin successfully add a new product

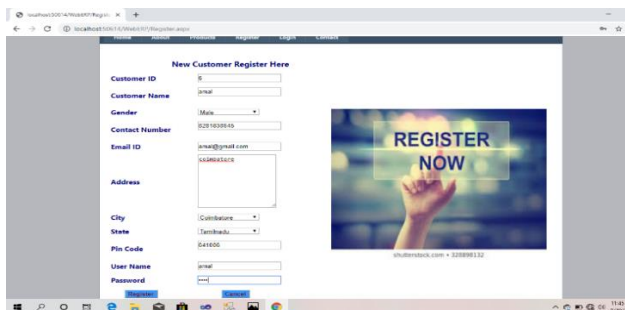


Figure 5: Registration form for customer

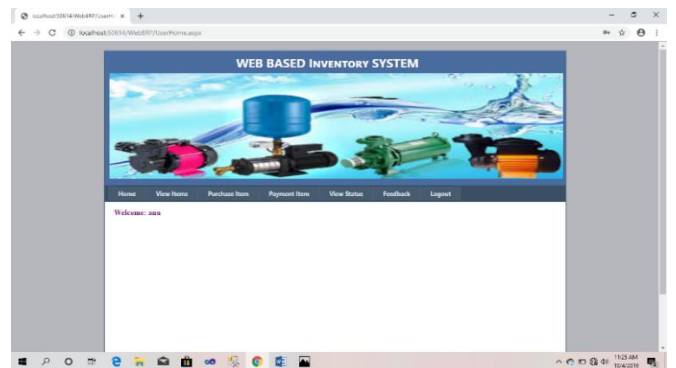


figure 6: customer can manage their page

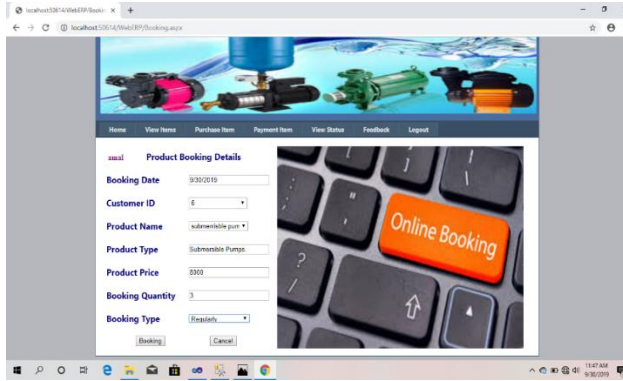


Figure 7: customer can book the product

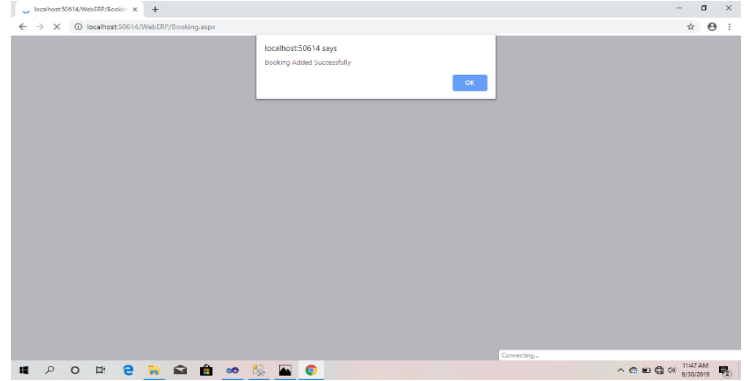


Figure 8: product booking successfully done by the customer

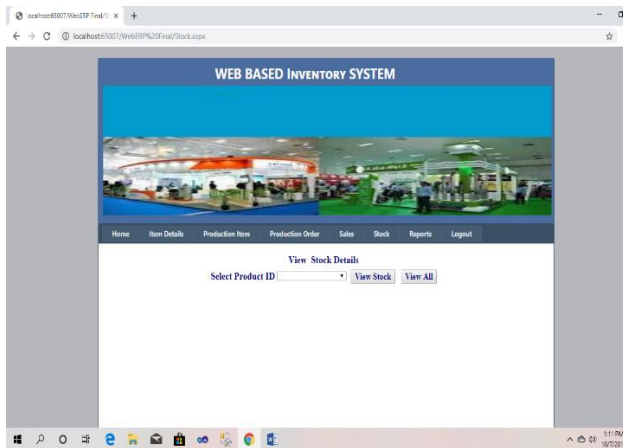


Figure 9: Complete stock details

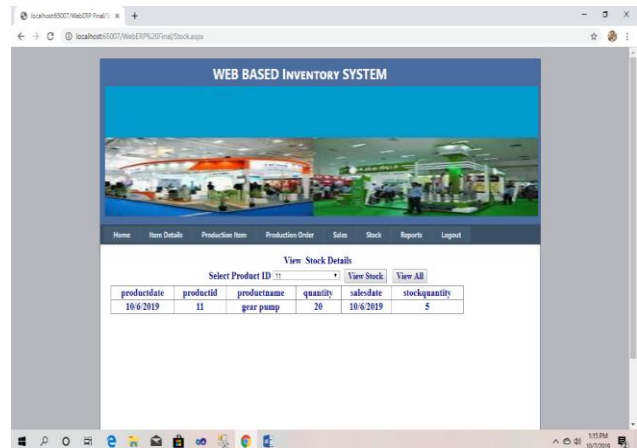


Figure 10: complete stock details

V. CONCLUSION

This web application was successfully created and stored all the product, customer, booking, payment, sales, delivery and stock details into the database using this application. The application was tested very well and the errors were properly debugged. Testing also concluded that the performance of the system is satisfactory. All the necessary output is generated. This system thus provides an easy way to automate all the functionalities of consumption. If this application is implemented in few consumption, it will be helpful. Further enhancements can be made to the project, so that the website functions in a very attractive and useful manner than the present one. It is concluded that the application works well and satisfy the needs. The application is tested very well and errors are properly debugged. It also acts as the sharing of files to the valuable resources.

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