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STORES MANAGEMENT SYSTEM

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ABSTRACT:

The system entitled "STORES MANAGEMENT SYSTEM" is windows application software which attempts to integrate all modules and functions across a company onto a single computer system that can serve all those modules‟ particular needs with department access is restricted through authentication and Low Stock alerts will be pop up in the working window, which avoid searching so, that company can make decision ease for raise the order including raw materials. For instance Nuts, Bolts, Copper etc. Every Organization has its own Product, Product Manufacturing, sales, Maintenance procedure and administrative methods to develop and implement these methods and Items. Every organization or institution has several departments & employees of these departments should have to be trained to improve their efficiency. This project is mainly developed to overcome the drawbacks of the existing system where they were maintained manually. Moreover, it is mainly concentrated on the stock maintenance system.

Keywords: Low Stock Alert, Reorder Level, Reorder Quantity, Stock maintenance, Pre-order level, Bulk Production

INTRODUCTION:

The system entitled **"STORES MANAGEMENT SYSTEM"** is windows application software which attempts to integrate all modules and functions across a company onto a single computer system that can serve all those modules‟ particular needs. It has been designed and developed by using Microsoft Visual Basic.Net 2010 as Front-End tool and MS SQL Server 2008 as back-end tool.

Traditional record maintenance in any system uses a lot of paperwork, which is really hard to maintain and work with. This causes a lot of problems in record maintenance and in kind of many process like searching records, updating and deletion of data. Computerised System keeps it easy for data storing / retrieval simple & paperless. And it overcomes all memory overhead due to manual systems in a company.

Stores Management System is designed under the graphical user interface (GUI) environment of **Microsoft Visual Studio.Net 2010** as front end and **SQL Server 2008** as back end support.

Every Organization has its own Product, Product Manufacturing, sales, Maintenance procedure and administrative methods to develop and implement these methods and Items. Every organization or institution has several departments & employees of these departments should have to be trained to improve their efficiency. This project is mainly developed to overcome the drawbacks of the existing system where they maintained manually. Moreover, it is mainly concentrated on the stock maintenance system.

This system vanquishes the old standalone computer systems in the store maintenance company and replaces them into a single unified software program divided into several modules such as Supplier Master, Customer Master, Product Master, Sales, Sales Return, Purchase, Purchase Return and reports that roughly approximate the old standalone systems.

This software is flexible enough that the user can install some modules without buying the whole package.

The reorder level and the reorder quantity are predefined for each particular type of part. The purpose of the system is to provide integrated work monitoring done in the stores section, to provide statistical data and to handle the data in an effective manner.

SYSTEM SPECIFICATION:

HARDWARE SPECIFICATION

Processor : Intel Dual Core Processor
Ram : 1 GB RAM
Hard Drive : 160 GB
Monitor : 17 INCHES
Keyboard : 104 keys
Mouse : Logitech Optical Mouse

SOFTWARE SPECIFICATION

Operating System : Windows 8 onwards
Front-end : Microsoft VB.Net 2010
Back-End : MS SQL SERVER 2008

EXISTING SYSTEM:

Initially the system was not customized and various details of the stores maintenance company were maintained manually. The transactions made with the supplier master, customer master, product master, sales form, sales return form, purchase form, purchase return form and reports each of these are maintained manually in a separate register.

DRAWBACKS OF EXISTING SYSTEM

1. The entire system is maintained still manually and few records in excel sheets.
2. Heavy Paper works needed in order to maintain the records.
3. No proper administration in maintaining previous years records.
4. Management is under trouble to maintain all the modules processed in the store's maintenance company.

PROPOSED SYSTEM:

The main purpose of the proposed system is to solve the drawbacks in Existing System which was not automated. The system is user-friendly and developed in a graphical user interface operating system. It manages all the processing in order to reduce the manual work such that it becomes an effective system.

1. The main objective of the proposed system is to provide a user-friendly interface.
2. To develop user friendly software that meets the user needs any time.
3. Information can be created and altered by administrator.
4. In the system the customer can access the product catalogs of the organization.

ADVANTAGES OF PROPOSED SYSTEM

1. First each and every process in the store's Maintenance Company is computerized by properly sketch work the modules and the forms and concentrating on the integration part also.
2. Management can take a decision easily to maintain the proposed modules.
3. Management can make proper planning by checking out the stock status.
4. No paperwork is needed.
5. The proposed software is going to be user friendly since the entire records can be retrieved in fraction of seconds.
6. Low Stock alerts will pop up in the working window to alert the company to raise the order.

MODULE DESCRIPTION:

The modules in the Stores Management system are

1. SUPPLIER MASTER

The Supplier master carries the input Supplier ID, Supplier Name, Supplier Contact Number, Email ID, Address, GST Number, Contact Person in the Supplier Company, Designation, Contact Number of the Person and the Contact Person Email ID. These details have been stored in the centralized database and it can able to update or search a particular record when they needed.

2. CUSTOMER MASTER

The Customer master carries the input Customer ID, Customer Name, Customer Contact Number, Email ID, Address, GST Number and area. These details have been stored in the centralized database and it can able to update or search a particular record when they needed.

3. PRODUCT MASTER

The Product master carries the input Product ID, Product Name, Category, Description, Unit of Measure, Rate per Unit of Measure, Stock in Hand, Re-Order level and the supplier name of the product. These details have been stored in the centralized database and all the internal calculations will be done in the Product master and it reflects back as an output.

4. SALES FORM

The Sales Form carries the input Sales Number, Sales Date, Customer Id, Customer Name, Product Code, Product Name, Unit of Measure, Rate per Unit of Measure, Quantity sold, Total amount, Tax percentage, Tax Amount and the net amount. These details have been stored in the centralized database and it can able to update or search a particular record when they needed.

5. SALES RETURN FORM

The Sales Return Form carries the input Sales Return Number, Sales Return Date, Sales Number, Sales Date, Customer Id, Customer Name, Product Code, Product Name, Unit of Measure, Rate per Unit of Measure, Quantity Returned, Total amount, Tax percentage, Tax Amount and the net amount. These details have been stored in the centralized database and it can able to update or search a particular record when they needed.

6. PURCHASE FORM

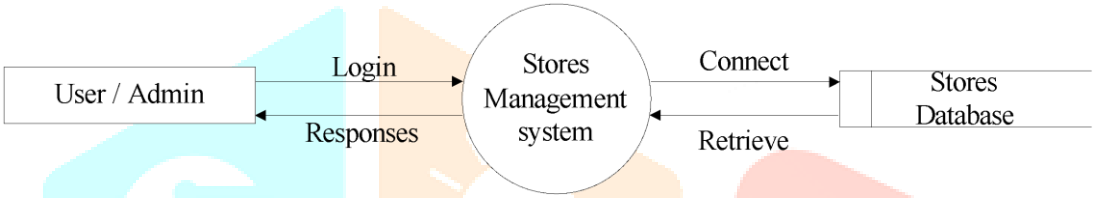
The Purchase Form carries the input Purchase Number, Purchase Date, Supplier Id, Supplier Name, Product Code, Product Name, Unit of Measure, Rate per Unit of Measure, Quantity Purchased, Total amount, Tax percentage, Tax Amount and the net amount. These details have been stored in the centralized database and it can able to update or search a particular record when they needed.

7. PURCHASE RETURN FORM

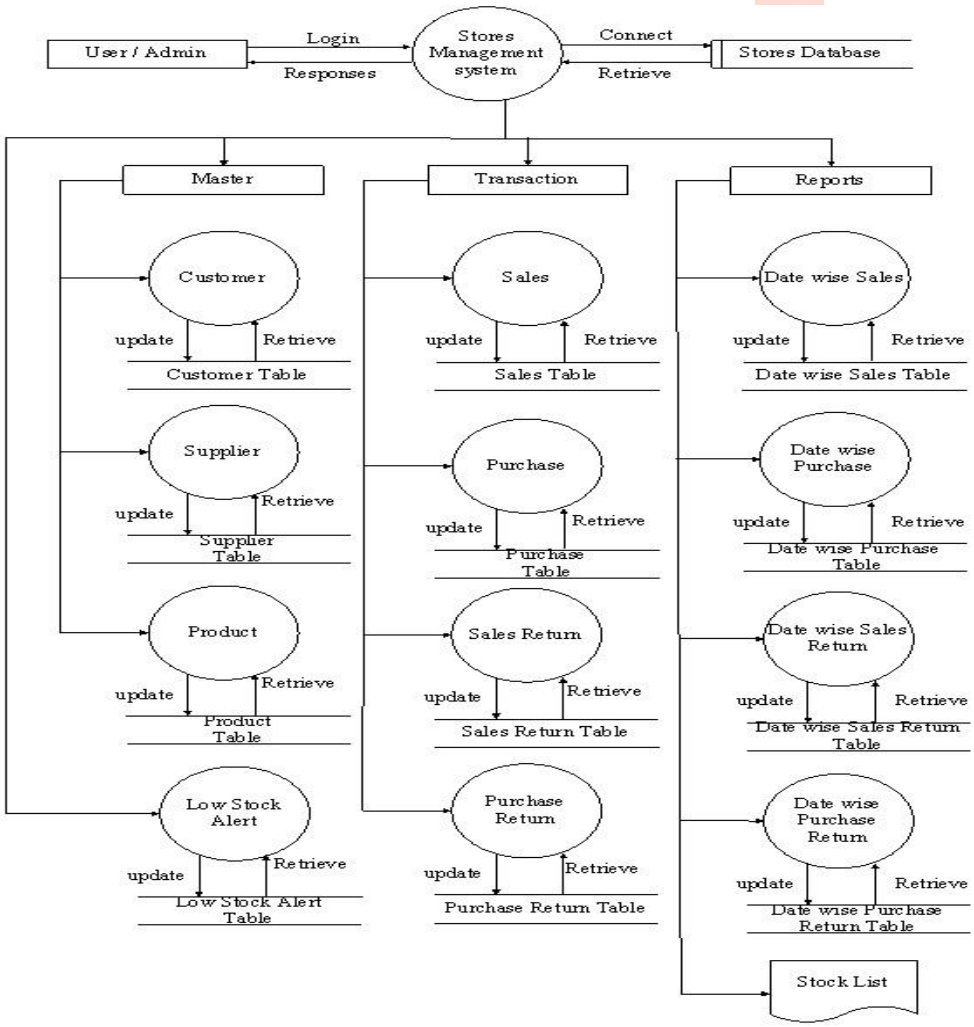
The Purchase Return Form carries the input Purchase Return Number, Purchase Return Date, Purchase Number, Purchase Date, Customer Id, Customer Name, Product Code, Product Name, Unit of Measure, Rate per Unit of Measure, Quantity Returned, Total amount, Tax percentage, Tax Amount and the net amount. These details have been stored in the centralized database and it can able to update or search a particular record when they needed.

DATA FLOW DIAGRAM

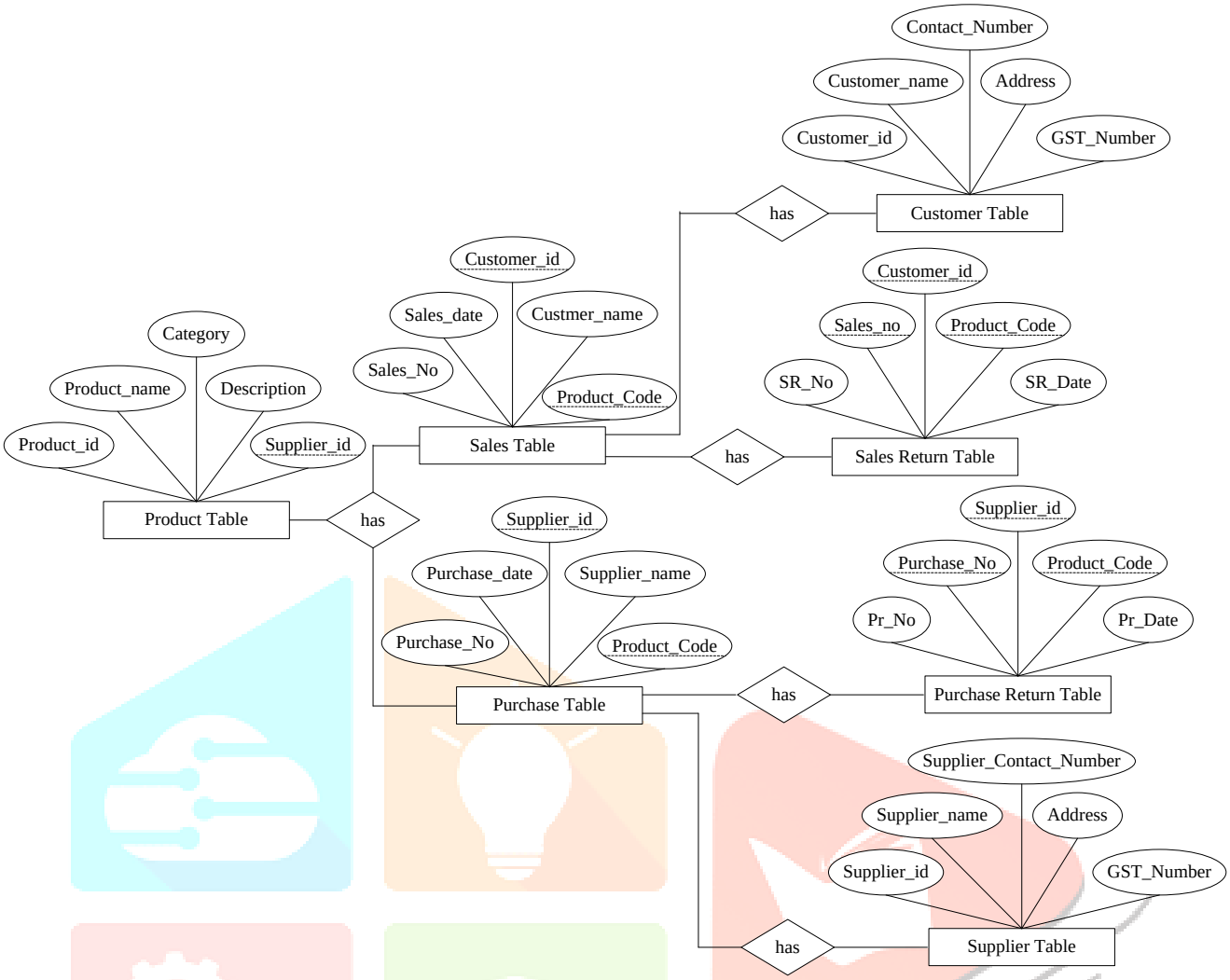
LEVEL-0



LEVEL-1



ER DIAGRAM



INPUT DESIGN:

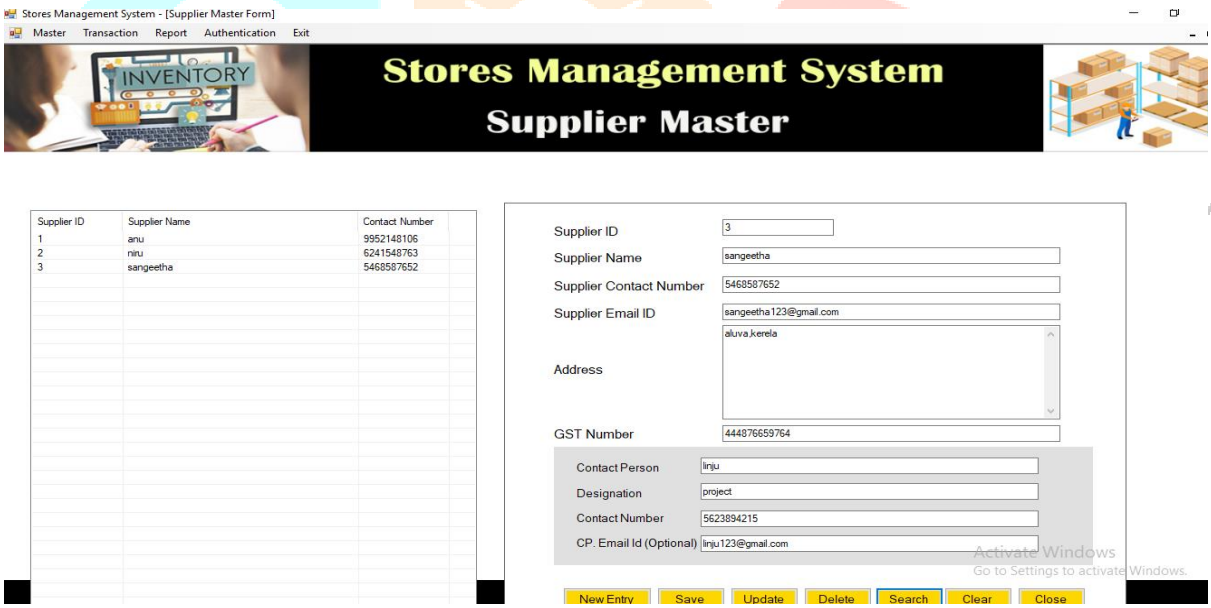
The input design in the Stores Management System is as follows,

- In Login Form, users have to enter the two data fields such as username & password.
- In Supplier Master, users have to enter the data fields such as Supplier ID, Supplier Name, Supplier Contact Number, Supplier Email ID, Address, GST Number, Contact Person, Designation, Contact Number, CP.Email id(optional)
- In Customer Master, users have to enter the data fields such as Customer ID, Customer Name, Contact Number, Email ID, Address, GST Number, and Area.
- In Sales Details, users have to enter the data fields such as Sales Number, Sales Date, Customer Id, Customer Name, Product Code, Product Name, Unit of Measure, Rate per Unit of Measure, Quantity sold.
- In Sales Return Details, users have to enter the data fields such as Sales Return Number, Sales Return Date, Sales Number, Sales Date, Customer Id, Customer Name, Product Code, Product Name, Unit of Measure, Rate per Unit of Measure, Quantity Returned.
- In Purchase Details, users have to enter the data fields such as Purchase Number, Purchase Date, Supplier Id, Supplier Name, Product Code, Product Name, Unit of Measure, Rate per Unit of Measure, Quantity Purchased.
- In Purchase Return Details, users have to enter the data fields such as Purchase Return Number, Purchase Return Date, Purchase Number, Purchase Date, Customer Id, Customer Name, Product Code, Product Name, Unit of Measure, Rate per Unit of Measure, Quantity Returned.
- In Product Master, users have to enter the data fields such as Product Master with input fields such as Product Code, Product Name, Category, Code or Description, Unit of Measure, Rate, Stock in Hand, Reorder Level, Supplier Name.
- In Authentication form, users have to enter the data fields such as Auth.ID, Login Username, Login Password, and Department.

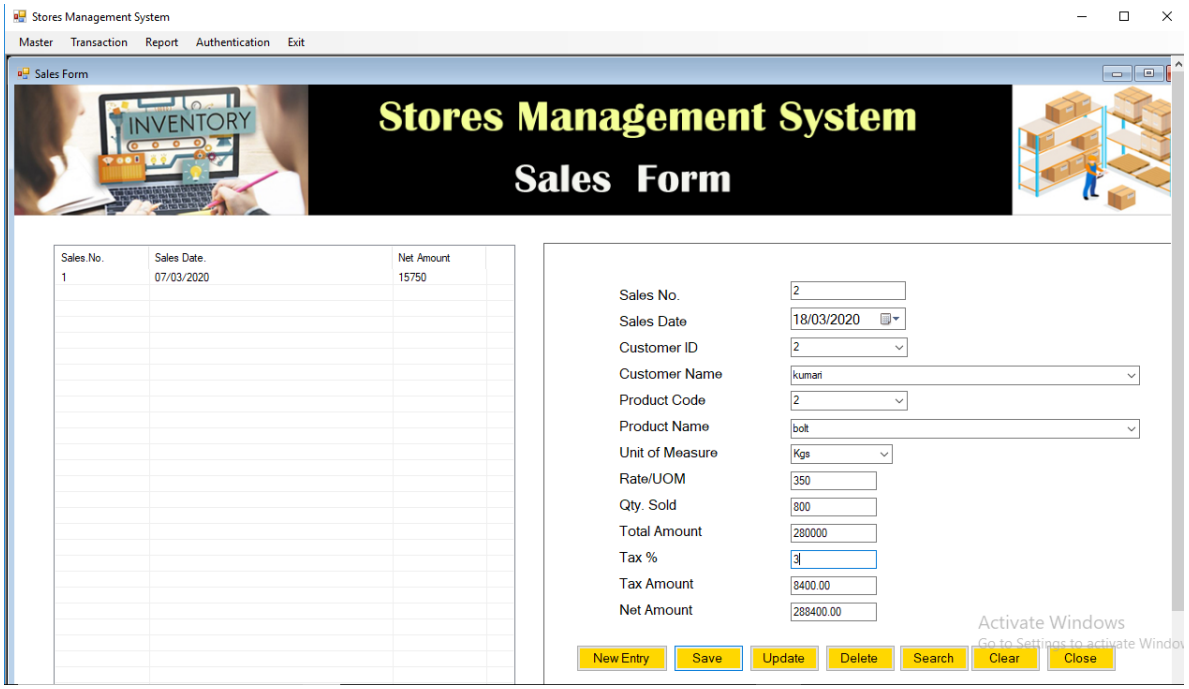
SCREENSHOTS

ADMIN LOGIN

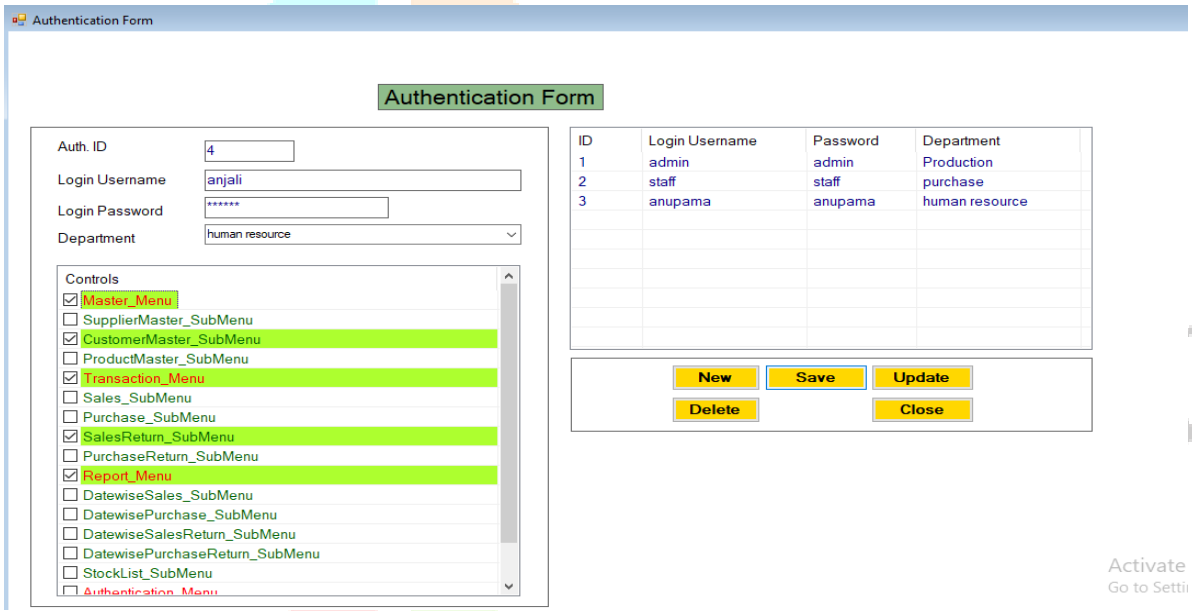
SUPPLIER DETAILS



SALES FORM



AUTHENTICATION FORM



OUTPUT DESIGN:

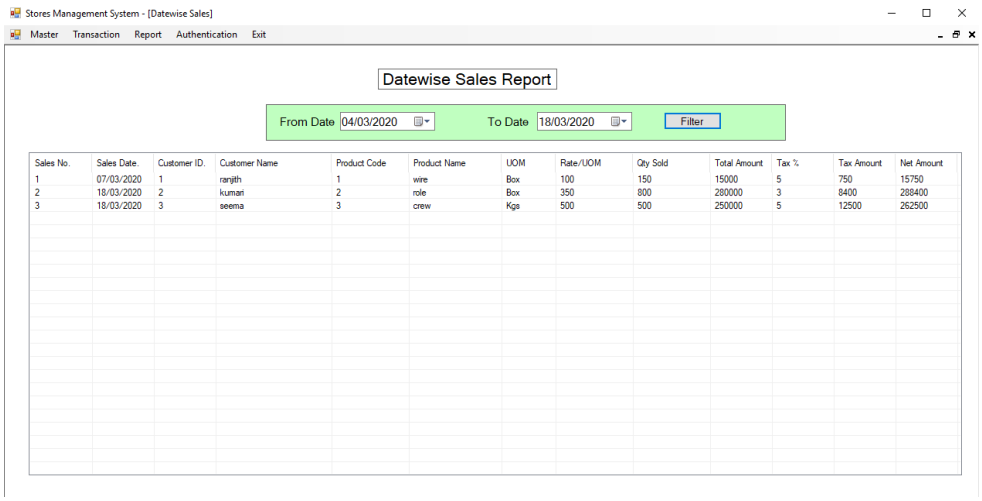
The output designs in the Stores Management System are as follows,

- Date wise Sales Details
- Date wise purchase Details
- Date wise Sales Return Details
- Date wise Purchase Return Details

The customized date wise reports of sales, purchase, sales returns & purchase returns are filtered as required by concern departments from the output.

SCREENSHOT

DATEWISE SALES REPORT



WINDOW POP-UPS

CONCLUSION

The Software Entitled **"Stores Management System"** is implemented to replace the manual system effectively. It can eliminate the human errors, which are likely to creep in the kind of working with bulk quantity of data, and typical calculation has to be processed. This package designed for the particular need of the company is found to work out the operations effectively and efficiently. The System reduces the Clerical work and result in retrieval of information, which is very vital for the progress of an organization. Cost is minimized in the case of the stationary and man power. Burden of Manual work is reduced whenever transaction takes places, where there is no need for recording it many places manually. The report can be taken easily. The Developed system is highly interactive one and is user friendly as it enabled by menu. The System provides accurate updating, data validation and integrity is observed in the system.

SCOPE FOR FUTURE ENHANCEMENT

Modification and enhancement can be made affecting any other part of the program because of the user friendliness and understand ability of the project. Integration of other departments such as Accounting and maintenance can be done in the administration level. Production department can be linked with the system to accept a pre-order (bulk production) based on which a production plan can be carried out. The data screens can be upgraded and menus can be easily added when required. Items can be added to the forms when there comes necessity of new data. The system has much scope in the future and it can be developed to add more features to satisfy the user's request and company's request. The primary goal of the system is to maintain the system more versatile and self-sufficient, thus changes over the system are possible to the system.

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