

Garment Industry Management System

R.Kaleeswaran¹, Dr.V.Kavitha², Dr.N.Revathy³, R.Gopala Krishnan⁴

^{1,2,3&4}PG & Department of Computer Applications,
Hindusthan College of Arts and Science
Coimbatore, Tamil nadu, ,India

Abstract

The project titled “GARMENT INDUSTRY MANAGEMENT SYSTEM” has been developed using VB.NET as front end and SQL SERVER 2005 as back end. This project aims at to monitor all process in the company, like order receiving, sampling, purchase of raw materials, production of goods, shipment and bills. As these works are done manually at the company at present it takes a lot of time to complete the work. The main goal of this project is to reduce manual works, increase the processing speed and ensure reliability of data. All process needed for the garment industry management is recorded for providing good information to the concern. Various reports are generated based on the requirement. Reports will present the management with the current position of the company. The project comprises eight departments such as Order Receiving, Sampling, Purchase, Processing, Production, Warehousing, Shipment and Billing.

Keywords : Order Details, Transaction, Delivery, Invoice, Maintenance

1. INTRODUCTION

Information about the Textile, the Material code, Material Type and cost information and also it contain the materials information such as how many colors yarn used in the corresponding design pattern and their yarns quantity. The Customer information database contains the details about the customer’s name, company name, and address with phone numbers information. The Supplier information database contains the details about the Supplier Name, company name, and address with phone numbers information. The working staff data base contains that company staff information such as staff name, designation, address, phone number, date of joining and salary information. This Project is developed in VB.NET with the database in SQL Server2005. With an improved integrated development environment (IDE) and a significantly reduced startup time, Visual Basic .NET offers fast, automatic formatting of code as you type, improved IntelliSense, an enhanced object browser and XML designer, and much more

II. METHODOLOGY

System analysis is a process of gathering the facts on the idea of textile shop development is how to manage the textile shop in a good manner or we can say managing the textile shop well from which people can get profit or just stay out from the difficulties, how the things is proper in the shopping mall, what is the input in the shopping mall and what is the output how to track the goods are available there or which is sort. All this is auto track by the application from which there will be no any difficulties facing by the management after all there are certain report generation based on the shopping mall daily turnover, monthly turnover etc The main goal of this project is to reduce manual works, increase the processing speed and ensure reliability of data. All process needed for the textile management is recorded for providing good information to the concern. Various reports are generated based on the requirement.

Reports will present the management with the current position of the company The Material database contains the system breaking them into elements and relationship between elements. It provides a framework for visualizing the organizational and environmental factors that operate on a system. The quality of work performed by a machine is usually uniform, neat and more reliable when compared to doing the same operations manually

EXISTING SYSTEM

In the existing system the billing alone is maintained in old languages. We know the retrieve and user friendly because every coding taking long time and software working process slowly. They study of the existing system revealed that the system has several drawbacks.

DISADVANTAGE OF EXISTING SYSTEM

The existing system has no security measure against logging in and no checks are made for authorized users. The end user has to remember a lot of command to make efficient use of the system. The system does not have any descriptive reports and thus did not help management in decision-making. The stitching information per day is unable to find. Enormous amount of time is consumed

PROPOSED SYSTEM

The proposed system is been developed to maintain the Stitching show room information by the dealers to maintain the design details, customer details, Employer details, material details, billing details etc.

ADVANTAGE OF PROPOSED SYSTEM

The user can enter only if the username and the password are correct. The process of planning will be easy since every process is computerized and Time Saving. The Stitching information per day and per month can be known. The details of the all saved information can be viewed. The data can be accessed easily whenever needed and so the manual work can be reduced.

OVERVIEW OF THE PROJECT

The project is entitled as “GARMENT INDUSTRY MANAGEMENT SYSTEM” with VB.Net 2008 as the front end and SQL Server 2005 as the back end, this program is stable when running under WINDOWS XP.

MODULES DESCRIPTION

- **Master Module**
 - ✓ Order Details
 - ✓ Material Details
 - ✓ Production Details
- **Transaction Module**
 - a. Delivery Details
 - b. Invoice Details
 - c. Stock Details
- **Maintenance Module**
 - a. Supplier Details
 - b. Customer Details
 - c. Employee Details
 - d. Employee Pay slip

MASTER MODULE

Order details

The garments order details are included in this module. The order made by the buyer is described in this module. The order number, date of order are included here for future reference.

Material details

The materials that are available in the garment are available in this module. The different variety of materials available in the garment along with other details like name of the material, availability, price range, quality are available in this module.

Production details

The garment production details are available in this module. The details of the order that is currently in production are included in this module.

TRANSACTION MODULE

Delivery Details

The delivery details of the garment are available in this module. The details of garment delivery include date of delivery, buyer details and other material description.

Invoice Details

The payment related information is included in this module. The details include product, amount, buyer name and other information.

Stock Details

The stock details are included in this module. The stock available for each material, status of each garment is available in this module.

MAINTANANCE MODULE

Suppliers details

The supplier information is available in this module. The name of the supplier who supplied the material to the garment, the date of the supply, supplier address is available in this module.

Customer details

In this module the customer details are available. The name of the customer, the products purchased by them are included in this module.

Employee details:

The details of the employee are included in this module. The name of the employee, employee id, designation, projects handled by the employee are included in this module. Employee slip

The employee pay slips are included in this module. The name of the employee, attendance details, salary details are available in this module. This can be used to evaluate the performance of the employee.

DATA FLOW DIAGRAM

Figure 1 depicts about the overall process of Garment Industry Management System, which is having various number of modules which will be connected with their concern repository systems.

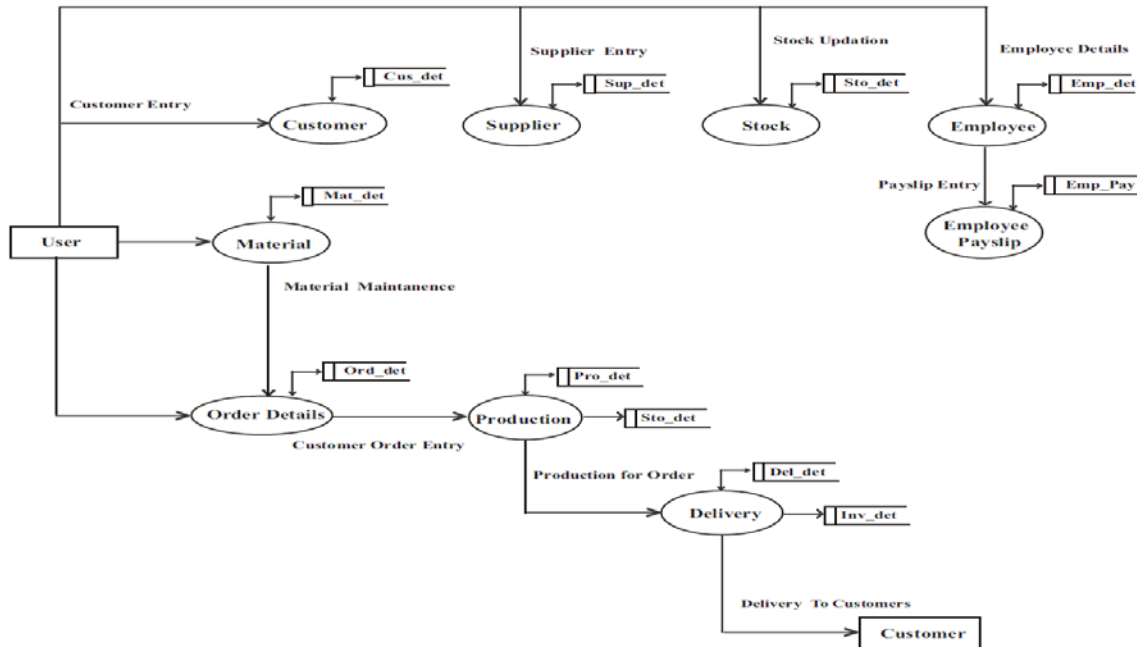


Fig 1 Data Flow Diagram of Garment Industry Management System

IV. INPUT AND OUTPUT DESIGN

Input design is one of the most important phase of the system design. Input design is the process where the input received in the system are planned and designed, so as to get necessary information from the user, eliminating the information that is not required. The aim of the input design is to ensure the maximum possible levels of accuracy and also ensures that the input is accessible that understood by the user.

The input design is the part of overall system design, which requires very careful attention. if the data going into the system is incorrect then the processing and output will magnify the errors.

The objectives considered during input design are:

- Nature of input processing.
- Flexibility and thoroughness of validation rules.
- Handling of properties within the input documents.
- Screen design to ensure accuracy and efficiency of the input relationship with files.
- Careful design of the input also involves attention to error handling, controls, batching and validation procedures.

Input design features can ensure the reliability of the system and produce result from accurate data or they can result in the production of erroneous information. The input design of the system includes the following.

Output design is very important concept in the computerized system, without reliable output the user may feel the entire system is unnecessary and avoids using it. The proper output design is important in any system and facilitates effective decision-making. The output design of this system includes the following reports.

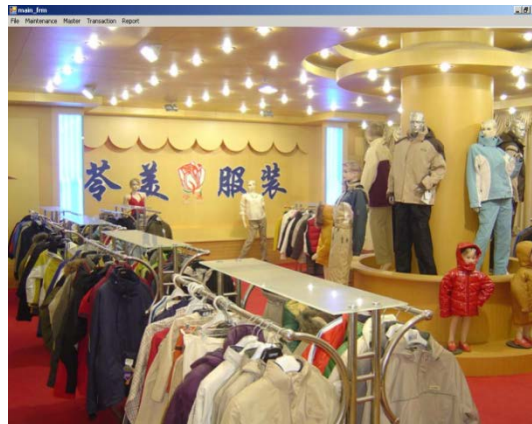


Fig2. Main form of Garment Industry Management System

In main menu there are various menus are organized such as file, Maintenance, Master, Transaction and Report. Supplier Details is a form which is utilized to get the details of the suppliers like code, name, address, contact number and mail-id are gathered and stored in the database. In the below figures are explained the input design and output design of supplier details, customer details, employee details, employee pay slip, invoice details, production details, material details and order details.



Fig 3. Supplier Details of the Input and Output From

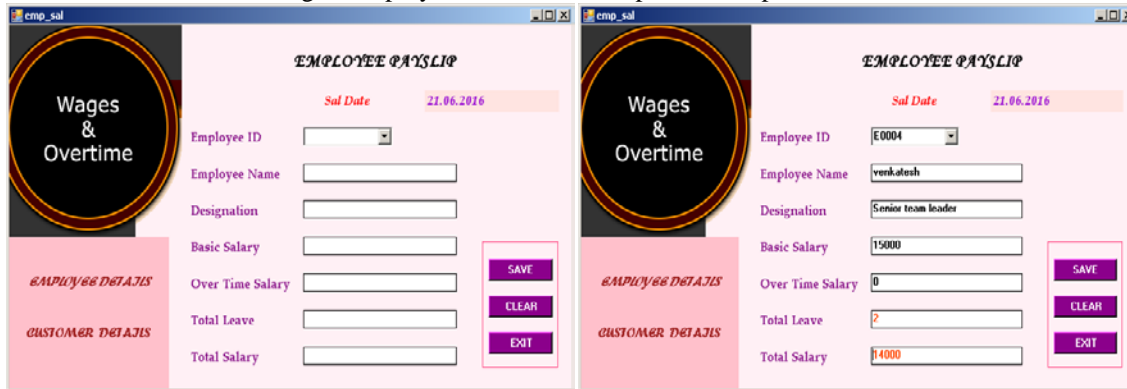


Fig 4. Customer Details of the Input and Output From



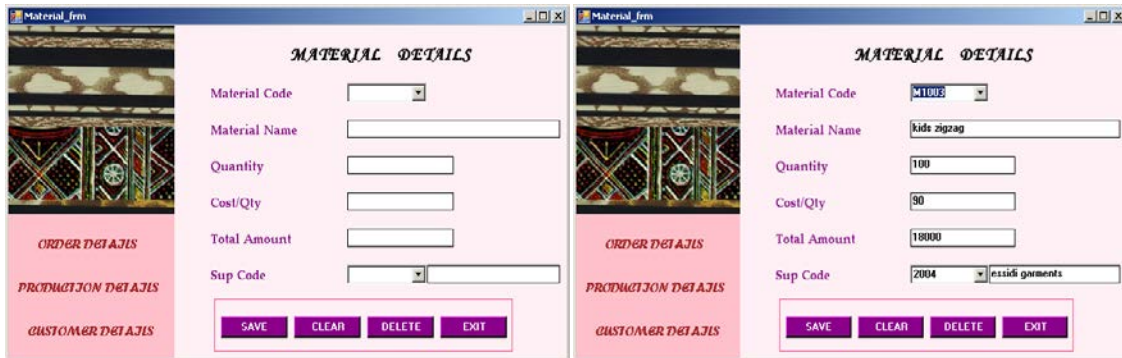
The figure shows two side-by-side screenshots of the 'EMPLOYEE DETAILS' form. The left screenshot shows the input fields: Employee ID (E0005), Employee Name, Address, Contact Number, Age, Qualification, and Designation. The right screenshot shows the output fields: Employee ID (E0004), Employee Name (venkatesh), Address (78/41 college rd salem), Contact Number (9674123652), Age (24), Qualification (Mac), and Designation (Senior team leader). Both screens have buttons for SAVE, EDIT, CLEAR, DELETE, and EXIT.

Fig 5. Employee Details of the Input and Output From



The figure shows two side-by-side screenshots of the 'EMPLOYEE PAYSIP' form. The left screenshot shows the input fields: Employee ID, Employee Name, Designation, Basic Salary, Over Time Salary, Total Leave, and Total Salary. The right screenshot shows the output fields: Employee ID (E0004), Employee Name (venkatesh), Designation (Senior team leader), Basic Salary (15000), Over Time Salary (0), Total Leave (2), and Total Salary (14000). Both screens have buttons for SAVE, CLEAR, and EXIT.

Fig 6. Employee Pay Slip Details of the Input and Output From



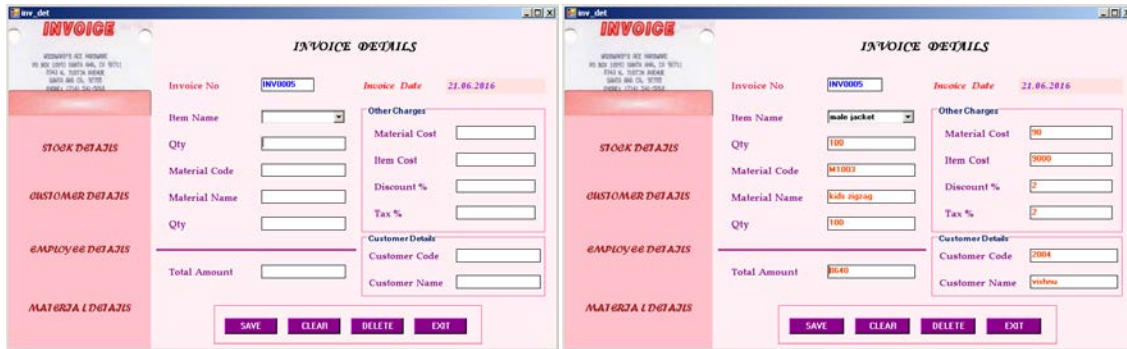
The figure shows two side-by-side screenshots of the 'MATERIAL DETAILS' form. The left screenshot shows the input fields: Material Code, Material Name, Quantity, Cost/Qty, Total Amount, and Sup Code. The right screenshot shows the output fields: Material Code (M1003), Material Name (kids zigzag), Quantity (100), Cost/Qty (90), Total Amount (18000), and Sup Code (2004 - nssidi garments). Both screens have buttons for SAVE, CLEAR, DELETE, and EXIT.

Fig 7. Material Details of the Input and Output From



The figure shows two side-by-side screenshots of the 'ORDER DETAILS' form. The left screenshot shows the input fields: Order Ref, Material Code, Material Name, Item Name, Quantity, Del Date, Customer Code, and Customer Name. The right screenshot shows the output fields: Order Ref (5), Material Code (M1003), Material Name (kids zigzag), Item Name (kids jacket), Quantity (100), Del Date (30.06.2016), Customer Code (2004), and Customer Name (vishnu). Both screens have buttons for SAVE, CLEAR, DELETE, EXIT, and REPORT.

Fig 8. Order Details of the Input and Output From



The screenshot shows two instances of the 'INVOICE DETAILS' form. The left instance is in an input state with empty fields. The right instance shows the output after data entry. The form includes sections for 'STOCK DETAILS', 'CUSTOMER DETAILS', 'EMPLOYEE DETAILS', and 'MATERIAL DETAILS'. Fields include Invoice No, Invoice Date, Item Name, Qty, Material Code, Material Name, Total Amount, and Customer Name. The right instance shows values like 'male jacket', '100', 'M1003', 'side zigzag', and '2004'.

Fig 9. Invoice Details of the Input and Output From



The screenshot shows two instances of the 'PRODUCTION DETAILS' form. The left instance is in an input state. The right instance shows the output with 'Completed' status and a 'Completed Date' of '21.08.2016'. The form includes sections for 'DELIVERY DETAILS', 'INVENTORY DETAILS', 'STOCK DETAILS', and 'EMPLOYEE DETAILS'. Fields include Production ID, Item Name, Quantity, Material Code, Material Name, Completion Status, and Completed Date. The right instance shows values like 'P0104', 'male jacket', '100', 'M1003', 'side zigzag', and '21.08.2016'.

Fig 10. Production Details of the Input and Output From

The above figures explained about the overall process of the garment industry management system.

4.CONCLUSION

The “GARMENT INDUSTRY MANAGEMENT SYSTEM” has been developed to satisfy all proposed requirements. The process of customer, employee, design, material, measurements and invoice details is maintained more simple and easy. The system is highly scalable and user friendly. Almost all the system objectives have been met. The system has been tested under all criteria. The system minimizes the problem arising in the existing manual system and it eliminates the human errors to zero level. The design of the database is flexible ensuring that the system can be implemented. It is implemented and gone through all validation. All phases of development were conceived using methodologies. User with little training can get the required report. The software executes successfully by fulfilling the objectives of the project. Further extensions to this system can be made required with minor modifications.

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