

Data Mart Management System

ABSTRACT

The system “Data Mart Management System“ mainly deals with automating the tasks of maintaining and transacting the goods. In the Warehouse System inventory management is the key process. This process includes the activities such as maintenance of stock details, maintenance of receipts and items etc. It is a tedious job to maintain all these details manually. Hence we opted to automate the Warehouse Management System. It mainly includes five members. Administrator, Sub-Location In-charge, Retailer, Supplier, Customer. The Administrator has the privileges to maintain different types of Products, Suppliers, Sub Location Incharges Databases in the warehouse. He is concerned with registration of Suppliers, Sub-Location In-charge, and Addition of Products. The Sub location Incharges has privilege to maintain Products which are transformed from Administrator and registration of Retailers.

EXISTING SYSTEM

In the existing System everything is manually. It is very difficult to the Administrator to maintain the Sub location in-charge details and Retailer details. In the existing system the Administrator maintains the reports of stock in MS-Excel sheet. When he wants to know the stock, he has to verify the stock one by one.

PROPOSED SYSTEM

Proposed system are those that are automated, so that it is easy to retrieve the responses from the system fastly and updating the details once the response or services are provided to the end-users upon their request without any difficulty and saves time.

Objectives of the proposed system:

To make the jobs of admin, sub-location, retailer easy and trouble free.

To make the application user friendly.

To acquire up to date details about inventory.

To know the status of the Warehouse System.

To generate the reports as per the management requirements.

To provide maximum services to the users.

SCOPE OF THE PROJECT

The scope of the project has no boundaries. The system can be accessed from anywhere in the world. We can also implement internationalization (i18n) to support user interface in various/local languages.

MODULE DISCRPTION

DataMart Management System mainly consists of four modules ...

1. Master maintenance
2. Shipment
3. Billing
4. Reports

Master Maintenance :

DataMart Management System maintains the following master details for various purposes.

- i) Suppliers Details
- ii) Sublocation Incharges Details
- iii) Retailers Details
- iv) Products Details

Shipment :

DataMart Management System provides you a number of functions to maintain the flow of goods in warehouse.

The following tasks are caused under this module ...

- i) Transfer inventory
- ii) Put inventory on hold

- iii) View inventory balances
- iv) View inventory transactions

Billing :

Warehouse billing process allows the retailer to generate new bills and also allows viewing of existing bills.

Reports :

The reports process allows the user to produce the reports necessary for day to day warehouse operations. The standard reports are ...

- i) . Inventory Reports
- ii). Purchase Order Reports
- iii). Administrative Reports

FEATURES TO BE IMPLEMENTED

- Session management
- Connection pooling
- Normalized database
- Prevention of duplication login
- Design patterns
- Three-tier architecture
- Maintainability
- Easy deployment with Ant script
- Exception handling
- Client-side validations

TECHNOLOGIES TO BE USED

- **Web Presentation:** HTML, CSS

- **Client – side Scripting:** Javascript
- **Programming Language:** Java
- **Web based Technologies:** JNDI, Servlets, JSP
- **Database Connectivity API:** JDBC
- **Build Tool:** ANT
- **Debug Tool:** Log 4J
- **Backend Database:** Oracle/SQL Server/MY SQL/MS Access
- **Operating System:** Windows XP/2000/2003, LINUX, Solaris
- **J2EE Web/Application Server:** Tomcat/Weblogic/Websphere/JBoss/Glash
Fish
- **IDEs:** Eclipse with My Eclipse plugins/Net Beans/RAD
- **Browser:** IE/Mozilla

HARDWARE REQUIREMENTS

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|---------------------|-------|------------------|
| • Pentium processor | ----- | 233 MHZ or above |
| • RAM Capacity | ----- | 128MB |
| • Hard Disk | ----- | 20GB |
| • Floppy disk | ----- | 1.44 MB |
| • CD-ROM Drive | ----- | 32 HZ |
| • KEYBOARD | ----- | 108 Standard |