

Stores Management System

Project Objective

The Stores Management system will enable a chain of stores to coordinate with their supplier to facilitate on time supply and to maintain updated information about available stocks at each store.

This Stores Management System can be hosted over either an intranet or over the internet. For stores owned by the manufacturer the system can be operated over a company wide network to enable transfer of information. In the case of various dealers selling shoes made by the manufacturer it may be easier to host the system over the internet.

The system has two main functions, to inform the manufacturer of dealer requirement of stocks and to maintain records of all dealer transactions. It is desirable for the dealer to maintain only the required amount of stocks so as to reduce warehousing charges. The dealer can place orders to the manufacturer in two ways:

1. By explicitly ordering a specific quantity of stocks to be delivered on a particular day.
2. By setting a requirement that the manufacturer maintains a minimum amount of stock at the dealer warehouse. When the stock dips beyond a specific value an automatic buy order will be generated for the manufacturer to fulfill.

All records of these transactions will be maintained and cash payments can be made at a later date.

The Stores Management System will keep track of the unique Stock Keeping Unit (SKU) of the products sent to each store. The Cost Price of the product will be set by the manufacturer and this is the amount the dealer will be required to pay the manufacturer. The Selling Price of the product can be set by the dealer based on their requirement. Whenever new stocks arrive at the dealer's warehouse it will be updated in the system along with the SKU. When this product is sold at a store it will be deducted from the dealer's inventory and the customer details along with the SKU of the product sold will be recorded.

The system will be able to generate reports about daily, monthly sales and based on historical information predict the demand of coming months. This will help dealers and the manufacturer to prepare for upcoming festive seasons when shopping increases.

Existing System

The existing Stores Management System consists of maintenance of individual ledgers or excel sheets by both the manufacturer and the dealer. The manufacturer will have to resolve differences between both the records before cash settlements can be done. This task becomes daunting when the manufacturer has to deal with dealers spread out over the country. The dealer will have to manually go through ledgers on a daily basis to decide when it is time to place a new buy order. It is also difficult to spot trends in shopping patterns.

Proposed System

The proposed Stores Management System will ensure that both the manufacturer and the dealer is working with just one version of records so as to avoid discrepancies. The manufacturer need not worry about working with different dealers in different parts of the country. The tracking of SKU will help identify changes in stock and in the unfortunate event of a product recall it will make it easier to identify the customers who bought a defective product. It is easy to spot spikes in shopping and plan accordingly for the same.

Modules

Manufacturer: The manufacturer will be able to create new login IDs for new dealers and set the Cost Price for different products. They will be able to track contract details and payment due on different contracts.

Dealer: The dealer will be able to initiate single or recurring buy orders. This module will alert the manufacturer about changes in stocks and expected shipments. The dealer will be able to observe historical sale data and use this to determine future demand and order accordingly. The dealer will also be able to set the Selling Price for each product.

Admin: The admin will be able to control manufacturer login IDs and access.

Snapshots for the Project:

Login Page

Address  http://localhost:8080/stores/  Go



CPDCL STORES MANAGMENT



User Name :



Password :

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New

Material

Page



User :RRD/AEIN Date :21/02/06

New Material Receipts

PO Number

PO Date

Delivery Challan No.

Delivery Challan Date

Invoice Number

Invoice Date

Supplier Name


Remarks

Item	Qty as per DC	Actual Qty Received	Actual Qty accepted	Delete Row
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	DeleteRow


Another row >>

Submit

Devolutions page



CPDCL STORES MANAGEMENT



User :RRD/AEIN Date :21/02/06

Devolution

Devolution No.

Devolution Date

Workerorder No.

Workerorder Date

Section Name

TDA Account Code

Remarks

Item	Quantity	Delete Row
<input type="text"/>	<input type="text"/>	DeleteRow

Another row >>

Submit

Work order form



The screenshot displays a web application interface for a power utility. At the top, a blue header bar contains a logo on the left, a row of four electrical meter images in the center, and a map of a region on the right. Below the header, a left sidebar lists navigation options: Material Receipts, Material Issues, Reports, Check Measure, Add New, General Reports, Material Card, Despatch Order, Gate Pass, Search, and Logout. The main content area has a light blue background. At the top of this area, it shows 'User: RRD/AEIN' and 'Date: 21/02/06'. The title 'Work Order Number Form' is centered. Below the title, the text 'Work Order Number' is followed by an empty input field. A 'Submit' button is positioned below the input field. At the bottom of the sidebar, there is a search bar with a 'go' button.

Material Receipts
Material Issues
Reports
Check Measure
Add New
General Reports
Material Card
Despatch Order
Gate Pass
Search
Logout

User: RRD/AEIN Date: 21/02/06

Work Order Number Form

Work Order Number

Submit

Inter stores page

The screenshot shows the 'Inter Stores Material Issue' form. The left sidebar contains a menu with the following items: Material Receipts, Material Issues, Reports, Check Measure, Add New, General Reports, Material Card, Despatch Order, Gate Pass, Search, and Logout. The main content area has a header with the user 'RRD/AEIN' and the date '21/02/06'. The form title is 'Inter Stores Material Issue'. It includes input fields for 'Diversion Order No.', 'Diversion Order Date' (set to 21/02/06), and 'Receiving Store Code' (a dropdown menu showing '- select -'). There is a 'Remarks' text area. Below these is a table with columns: Req. No., Req. Date, Item ID, Quantity, and Delete Row. The table has one row with empty input fields. A 'DeleteRow' button is next to the 'Delete Row' column. Below the table is a button labeled 'Another row >>'. At the bottom of the form is a 'Submit' button.

Material Receipts
Material Issues
Reports
Check Measure
Add New
General Reports
Material Card
Despatch Order
Gate Pass
Search
Logout

User :RRD/AEIN Date :21/02/06

Inter Stores Material Issue

Diversion Order No. Diversion Order Date 21/02/06

Receiving Store Code - select-

Remarks

Req. No.	Req. Date	Item ID	Quantity	Delete Row
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	DeleteRow

Another row >>

Submit

Stores Management System main page

The screenshot shows the main page of the Stores Management System. The left sidebar contains a menu with the following items: Material Receipts, Material Issues, Reports, Check Measure, Add New, General Reports, Material Card, Despatch Order, Gate Pass, Search, and Logout. The main content area has a header with the user 'RRD/AEIN' and the date '21/02/06'. The page is mostly blank, with a large empty space for content.

Material Receipts
Material Issues
Reports
Check Measure
Add New
General Reports
Material Card
Despatch Order
Gate Pass
Search
Logout

User :RRD/AEIN Date :21/02/06

Software Requirements

- Windows

- Apache Tomcat Web Server
- Oracle / MySQL

Technology Used

- Java
- Spring
- JPA
- JDBC
- Spring Boot
- Spring REST

Hardware Requirements

- Hard Disk – 2 GB
- RAM – 1 GB
- Processor – Dual Core or Above
- Mouse
- Keyboard
- Monitor

EVALUATION AND ASSESSMENT PARAMETERS:

This mini project will be done in groups of five. Each group will identify a Team Lead who will decide which team member will code for which functionality. This project shall be evaluated at the end of spring module.

Evaluation Criteria (out of 100):

Look of console for all the screens	05
Client-side validation of inputs	10
Code Documentation and using coding standards	10
Overall Business logic. This includes: <ul style="list-style-type: none">• Usage of Logging API (log4j)	30
Good amount of appropriate dataset to showcase project completely	5
Appropriate test cases using JUnit 4.0	5
Using MVC architecture and clean encapsulation of business logic in appropriate components. Judicious use of java beans.	35