**Distribution Management Solution**

**Introduction**

DMS is a specialized total software solution to manage the entire operation of the whole sale distributors and it is developed by CODEBLOCKS Pvt Ltd. This software was developed over a period of 10 years with the experience gathered incorporating a significant amount of research in the field and the feedback gathered from Main Distributors in the country.

**Technologies**

* WCF as back end
* SQL Server as Database
* React.js as front end
* Service Application (Windows/Linux) to fetch external records

**High Level Design of the system and functionalities**

* **Agency Management**

1. Capable of having multiple Distribution Agencies’ data. That is one distributor can manage multiple Agencies using this system.
2. Agency ADD/EDIT/DELETE functionality
3. Agency Bank Guarantee Management and Notification for Expire.

* **Customer Management**

1. Capable of managing entire customer base of multiple agencies per one distributor. Same customer can exist in Multiple agencies with different credit limits
2. Customer History can be viewed with filtration BAD/GOOD Customer or the purchased invoices (Customer Category can be defied by set of values)
3. DB Schema > (Suggested but open for changes)

* **Sales Invoice Management**

1. Capable of creating invoice record either manually or invoice uploader \*. (Can be configured via Settings)
2. Windows service application will fetch the invoice records and update the database. It will also upload the stock details to the database.
3. Capable of approving invoices. (Checking Sales Returns/Any other errors)
4. Capable of editing sales invoice outstanding via Delivery Document \*.
5. Capable of Managing Return Cheques.
6. View Invoice Outstanding (View All agencies or agency wise)
7. View Invoice Settlements (View All agencies or agency wise)

* **Purchase Invoice Management**

1. Capable of creating invoice record either manually or invoice uploader \*. (Can be configured via Settings)
2. Capable of approving invoices. (Checking Purchase Returns/Any other errors)
3. View Purchase Invoice Outstanding (View All agencies or agency wise)
4. View Purchase Invoice Settlements (View All agencies or agency wise)

Note:

Invoice Uploader is a user control which accepts invoices as CSV or Direct connection with the particular agencies Data base server.

Delivery document is a physical document given for the delivery team and they supposed to fill it and return to the office. Once received it has to be rechecked either with uploaded invoices and physical invoices received from the delivery team.

* **Stock Verification**

1. Capable of identifying variances in the external system stock and the expected Stock.

* **Finance Management**

1. Capable of mapping the Bank Account with the agency finance deposits and withdrawals and do reconciliation.
2. Profit and Loss Account Creation

* **People Management**

1. Manage Employee Records
2. Manage Employee Leave Records and Reminders
3. Manage Employee Attendance Records

* **SLA/License Management**

1. Manage Drug License with remiders for expiry date eg: Premise, Pharmacy, Vehicle
2. SLA Management eg: AC, Generator, Cleaning, Fire extinguisher, etc

* **Vehicle Management**

1. Capable of Managing Vehicle Service Records and Maintenance.
2. Capable of Viewing Vehicle Location by GPRS and vehicle path from Distributor Location.

* **Delivery Management**

1. Per day delivery plan with an option to receive suggested delivery plan based on invoices that are to be delivered.
2. Per day delivery routes with the option to track the visited the outlets through GPRS and track number of visited outlets, duration and corresponding payment settlements.

* **User Management**

1. User creation eg; Director,Manager,Clerk
2. User Authorization with the restriction as per the user role

* **System Management**

1. Language change option as per users request eg: Text Change and Width Adjustment
2. Invoice Adding Settings and configuration per agency.
3. Admin User creation
4. Business Health Monitor Settings

* **Business Health Monitor Management (Dash Board)**

1. Bank Guarantee details and expiry
2. Good Customer and Bad Customer Details
3. Passed Outstanding (Aged)
4. Delivery Management with a view of Delayed Delivery and Invoices
5. Vehicle Management details
6. License Management and SLA details and expiry