

SRS

Truck Order Management System

REVISION HISTORY

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1 Introduction

1.1 Purpose of the Document

The purpose of this document is to quickly outline and describe the requirements needed to complete this system. The structure is of an outline that touches upon the major areas of the system.

2 Application Environment

2.1 Technology Environment

Following are the hardware and software requirements for building this application

a) Hardware

Processor	600 MHz, Pentium 4
RAM	512 MB
Hard Disk Drive	10 GB

b) Software

IDE	Asp.Net
Programming languages	C# programming
Database	MS SQL Server
Documentation	Microsoft Word, Microsoft Visio, PDF files

2.2 Security System

Security of the system will be developed as a login/password authentication system and will be implemented as per the requirement of each section.

2.3 External Interfaces

2.3.1 Hardware Interface

- Intel 2.4GHz Celeron w/ 400MHz fsb
- 512 MB RAM
- 10 GB of free hard disk space.
- 15in SVGA flat panel monitor with 256 colors and 800 x 600 resolution

2.3.2 Software Interface

- ASP.Net environment Work is required
- MS SQL Server for database handling

2.3.3 Communication Interface

The communication interface of the application needs the internet or WAN setup for communicating with the database. It is possible that application resides on one machine and MS SQL Server on another machine, but network set up is required for accessing the database. Communication may also be required for interaction with payment gateway for credit card processing.

System will have the ability to communicate directly with customer production planning databases directly through EDI and Web services/xml.

2.3.4 Portability Requirements

Product should be portable over the minimum Hardware/Software requirements as given above.

2.3.4 User Interface

Type 1 Customer

Customer:

Customer may register to the system by providing the following information.

Customer ID: (Auto generated by System)

Customer Name:

Customer User name:

Registration Email ID:

Password:

Address:

City:

Zip Code:

Contact phone no.

Contact extension:

Contact email:

Contact person:

Contact Department:

On successful registration, Customer will receive an auto generated email with their login details for future reference.

Note: Registration Email ID/ Contact email ID both can be same or different.

The User name will be unique in the system. To every user name, a unique email ID will be associated.

Edit Customer profile:

A customer will have to option to edit profile as and when required. Under edit profile customer will have the ability to edit/ updates all fields being filled during registration process.

Customer Add/ Suggest suppliers

On After making a login as Customer, a customer may suggest a Supplier. In order to add/ suggest a supplier, customer needs to enter the following details:

Supplier system ID: Auto generated on back end
Supplier Name:
Supplier ID:
Supplier Contact email ID:
Supplier address:
City:
Zip Code:
Contact no:
Contact extension if available:
Contact Person:
Contact Department:

Once a supplier has been suggested by customer, Trucking company will receive an email alert for “New Supplier Suggested”.

Once this is approved by Trucking Company, Supplier will be added to the system.

Once a supplier is added/ suggested, it will show up under “My suppliers” with supplier account status as active/ DE active.

Note: Supplier are private to Customer.
A supplier may exist in multiple Customers’ account.

Customer Routes/ My Routes

Routes are private to Customers.

Each Customer may search the routes being created/ used/ served by them only. In case of new customer/ new route, customer may place a request to add it to the system.

In order to suggest a new route, Customer needs to enter the following.

Track Name:
Track No. (Auto generated by system)
Track Start point:
Track end point:
Track Created on: Auto populated by system
Pick up frequency: (set by admin)

As soon as a Track is added, customer may add the stoppages to it. In order to add a stop to a route/ track, customer need to enter the following:

Add stop name:

Stop no. (Auto Generated by system)

Note: Track/ Route is one and the same thing.

Default status of Route is active.

Multiple Stoppages can be added into a Track.

In case no stoppage will be added for a Track, then that specific Track will be considered as NON stop Track and the Starting point/ ending point will be considered as First/ last stoppage.

Customer Place Order: Place an order

Order No: Auto generated by System

Select Supplier name:

Supplier address: Auto populated from system

Purchase Order no:

Part Numbers: Multiple part numbers per order

KANBAN:

Order Date:

Supplier Item No:

Packing Slip no:

Release ID:

Discrete Qty:

Cum Qty:

Due Net:

Order Shipping Address: Always same as customer Address

Release Date:

Delivery Date:

Select Route/ Track:

If Extra Truck is needed the system will tell the User then they can Authorize:

Authorize extra Trucks: Yes/ No.

Note: For every order an order form will be generated which will be having all details related to order + Customer name & address + Supplier name & address.

Customer, Supplier, Transport company may view; print this form from their respective logins.

Assumption: One truck will only have the order for one customer only.

A customer may place orders for various suppliers.

In case of no track is added/ selected, order will not be placed.

Customer Orders: My Orders

Once a new order is entered into the system, Trucking Company and respective supplier will receive an email alert about new order being received.

All submitted orders are confirmed by default.

An order can have 2 status as Confirmed, Canceled.

From this area a customer may login to his/ her account and can view all the orders made.

Customer may search the orders based on following factors:

Order made between two date:

Order made to a Supplier:

Orders by Route:

As a search result, customer may check every single detail related to order as

Supplier information

Route information

Truck information

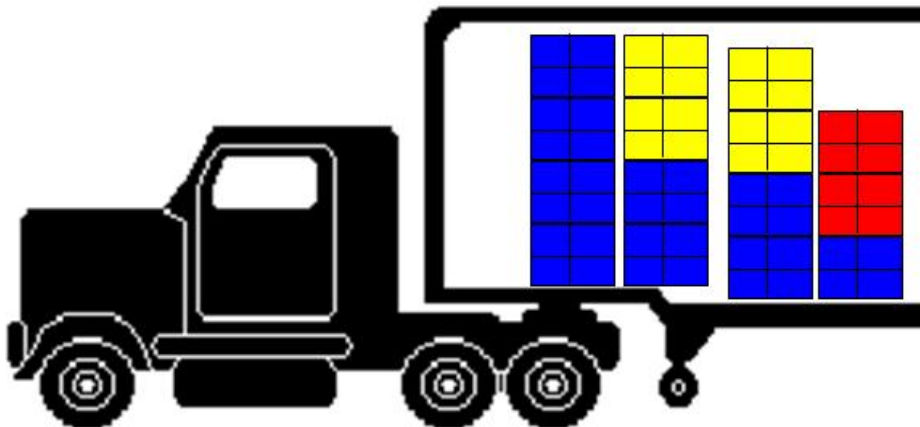
Driver name and other details

Physical position of the goods in a truck as shown in image below.

My order color

In the image below, each different color represents order for different SUPPLIER. This color will be assigned to every order during the time of order confirmation by trucking company.

SIDE VIEW:





SRS

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TOP VIEW:

ROUTE	SKID SPOTS	SKID COUNT	4 Stack	2 Stack	ARRIVAL	DEPARTURE	RUN DAY	DATE	BlowOut?						
CUSTOM-01	14	53	3 Stack	1 Stack	13:00	13:30	THURSDAY	12/16/2010	weight						
NOSE															
0ft	4ft	8ft	12ft	16ft	20ft	24ft	28ft	32ft	36ft	40ft	44ft	48ft	52ft	53ft	TAIL
CUSTOM MOLDED 1	CUSTOM MOLDED 3	CUSTOM MOLDED 5	CUSTOM MOLDED 7	CUSTOM MOLDED 9	CUSTOM MOLDED 11	CUSTOM MOLDED 13		15	17	19	21	23	25		LOAD & UNLOAD
CUSTOM MOLDED 2	CUSTOM MOLDED 4	CUSTOM MOLDED 6	CUSTOM MOLDED 8	CUSTOM MOLDED 10	CUSTOM MOLDED 12	CUSTOM MOLDED 14		16	18	20	22	24	26		
TAIL															
ROUTE	SKID SPOTS	SKID COUNT	4 Stack	2 Stack	ARRIVAL	DEPARTURE	RUN DAY	DATE	BlowOut?						
EXTRA TRUCK	4	14	3 Stack	1 Stack	13:00	13:30	THURSDAY	12/16/2010	OK						
NOSE															
0ft	4ft	8ft	12ft	16ft	20ft	24ft	28ft	32ft	36ft	40ft	44ft	48ft	52ft	53ft	TAIL
CUSTOM MOLDED 1	CUSTOM MOLDED 3	5	7	9	11	13	15	17	19	21	23	25			LOAD & UNLOAD
CUSTOM MOLDED 2	CUSTOM MOLD 4	6	8	10	12	14	16	18	20	22	24	26			

MOUSE OVER ACTION: On mouse over the user will see which parts/kanbans are in the part of the truck they are pointing at

Type 2 Supplier

Supplier

Supplier may register to the system by providing the following information.

- Supplier ID: (Auto generated by System)
- Supplier user name: (Unique)
- Supplier Name:
- Supplier email ID:
- Address:
- City:
- Zip Code:
- Contact phone no.
- Contact extension:
- Contact email:

On successful registration, Supplier will receive an auto generated email with their login details for future reference.

Note: Registration Email ID/ Contact email ID both can be same or different. Supplier login functionality will work based on user name.

Edit Profile/ Supplier:

Supplier may edit the profile any time. All the fields being entered by supplier will be available to edit and update.

Supplier Order Management/ My orders:

From this area a Supplier may login to his/ her account and can view all the orders received. All orders will be confirmed by Default.

Under this section, Supplier may check every single detail related to order as

- Customer information
- Route information
- Truck information
- Driver name and other details
- Physical position of the goods in a truck.
- My order color

Supplier may search the orders based on two factors:

- Order made between two date:
- Order made by a customer:
- Order by route:

Type 3 Trucking Company**Manage Users: Customer/ Suppliers**

From this area admin may search/ view details of the Customers and supplier registered with system.

Trucking company will have the ability to suspend any user account.

Once a user account is suspended, concerning user will not be able to login to the system.

Trucking company may search the user with following options as

- Select type: Supplier/ Customer:
- Registered between two dates:
- Search by email ID:

Manage Truck Categories:

From This section, Company may create, add, edit, update, activate, deactivate as many as truck categories are required. In order to add a truck category, company needs to fill the following

Add Truck Category name:

Once truck category is added, Trucking company may edit it any time.

Add/ Manage Trucks:

From this section, Trucking Company may add Truck to any of the Truck category. In order to add a Truck into the system, Trucking Company may have to add the following details:

Select Truck Category:

Truck ID: (Auto generated by system)

Truck Registration No:

Internal Truck Number:

Truck Specifications: (optional)

Truck Size:

Load Starting point: Nose/ Tail

No. of Bolts (skid spots) in truck:

Size of each bolt skid spot:

CARRIER: Who owns the Truck

Once a Truck is added to a system, Trucking Company may edit, update and deactivate any truck any time.

Add Drivers:

Trucking Company may add as many as drivers to the system. In order to add a driver, trucking company has to fill the following fields:

Driver Name:

Address:

City:

Zip Code:

Phone no:

Driver ID: Auto generated by system

Added on: Auto generated by system

Internal Driver no.:

Tracking company will have the feature to edit/ update/ activate/ deactivate any driver profile any time.

Manage Drivers:

From this section trucking company will allocate the Drivers to Trucks. In order to allocate a driver to a Truck, Trucking company needs to select the following:

Truck No:

Driver name/ No:

Trucking may edit/ update this any time based on the availability of Trucks and Drivers.

Approve Suggested suppliers

Once a supplier has been added/ suggested by a Customer, Trucking company will receive an email alert as “New Supplier suggested”.

Trucking company may login to the system and can approve/ deny the request after making verification.

Trucking company may view all pending/ approved requests.

Supplier will receive an email with the login details to system.

The Customer who had submitted the relevant request will also receive an email alter that the Supplier has been added to system.

Approve Tracks/ Routes:

Once a route is being added by a Customer, Trucking Company will receive an email “New route added”.

The default status of route is active. However trucking company has to set a Pick up frequency to each route.

In order to add a Pick up frequency, trucking company needs to do as below:

Select route:

Add Pick up frequency:

Trucking company may search the route by following options:

Search route by Customer name

Search route by Pick up freq:

Trucking company may edit pick up freq for a route any time.

Note: On every add/ update function of pick up freq. Customer associated to that route will receive an email alert.

Review Orders received:

Every time a new order is received into the system, Trucking Company will receive an email alert as “New order received”.

After making login to the system, in this area, they may review all the orders received and will allocate the Trucks to it.

In order to allocate a truck to an order Trucking company needs to select the following:

Select order:

Select Truck:

Select Color:

Note: Once a truck is allocated to an order, that order will no longer appear in above order list. Multiple Trucks can be allocated to an order.

In case of multiple order assignment to a Truck, One color can be allocated one time only.

At this point stack and Bolt calculation will be done on the back end. And system will show that what will be the exact position of the goods to be placed in the truck selected.

Assumption: A driver can only be allocated once for a specific date.

An order may require more than one truck.

No orders are editable

Once a Truck is allocated to an order, Weight calculation will be done on the back end.

The weight calculation and position of boxes is yet to be discussed over voice with client.

Manage Orders:

Once the trucks has been assigned to the orders, It will appear under manage order section. From this section Trucking company may view every details related to truck/ supplier/ customer/ order etc.

Trucking company may search in the area by selecting the following options as :

Order between two dates

Order by a supplier

Order by a Customer

Trucking company will have the option to make an order cancel in this area. Once an order is being cancelled, on the user side (Supplier/ customer) it will be declared as Canceled and an email will be sent to the respective supplier and customer accordingly.

Truck Over load function:

In case of Bulk order where multiple trucks are required against one order or an order is to be divided into two trucks to avoid truck over loading, System will blow up the message and will recommend the no. of additional trucks required of same truck category type.

During a linked upload the system will send an email to All parties to notify them of Blow out

Reports:

Once the system will be ready for beta launch, Jarc InfoTech will discuss the reports pattern with client and will accordingly create the reports.

3 Languages Applicable

English Only

4 Reference

Client documents as
Load planner.xls
Load Planning.mdb

5 Other Requirements from Client Side

- Domain Name/password for the website.
- Hosting space Name/password for the website.

JARC InfoTech assure you that all the information provided by you will remain 100% secure with us and will not be provided to any third party during or later the development period.

If you have any queries or questions then please feel free to contact us at:

rex@jarcinfotech.com

providers@jarcinfotech.com

contact@jarcinfotech.com