



INSTITUTE FORADVANCED COMPUTINGAND SOFTWAREDEVELOPME NTAKURDI,PUNE

Documentation On

"ONLINE TRUCK TRANSPORTATION SYSTEM" PG-DAC SEP 2021

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1. INTRODUCTION.

Introduction:

Indian logistics players are increasingly investing in IT and it is playing a vital role in modernizing and organizing the logistics sector in India. With the adoption of the latest technology logistics service providers are no longer restricted to the geographical boundaries and they can expand their business to any location across the globe and maintain visibility and control. IT solutions are currently being used for all supply chain management functions. It is expected that this would help in consolidation and thus reduction in costs of transport.

Problem Statement:

The Indian Road Transport market is unorganized and the operations are being done mostly through phone calls. But, with the help of proposed system they will be able to post, quote, view and manage all at the same time. In the current system shipment coordinators have a very little information about LTL (Less than truck load) shipments. Inspite of empty vehicles available in the particular market place the cost for the shipment sores high, due to lack of common online market place. The proposed system is to create transparency and visibility in Transport Sector, allowing smooth, efficient and cost effective deliveries of goods. It will be possible to create customized solutions for full truck loads, part truck loads, single haul, reverse haul, multiple truck types. The proposed system will provide comprehensive and powerful reports to help shippers make decisions about their logistics activities.

Aims and Objective:

Truck Transportation System is develop to manage transport activity through the web application. It provides support to all roles including Customer, Truckowner. Here the user(truck owner and customer) can register themselves and create orders and book available trucks from particular source to specific destination. The customer's role is to post a order and book trucks for the desired source and location. The Truck owner's responsibility is to view orders and contact his respective customer to deliver his goods:

- **♣**Simple database is maintained.
- **↓**Easy operations for the operator of the system.
- User interfaces are user accommodating and attractive; it takes very less time for the operator to use the system.

2. OVERALLDESCRIPTION.

ProposedMethodology:

The proposed system will provide comprehensive and powerful reports to help shippers make decisions about their logistics activities. Single Point of Contact (SPOC) for planning, documentation, management. The proposed system will serve Manufacturers, Brokers and anyone who wants to ship something. The system will help enable the creation of a common market thus permitting free and unobstructed movement of goods and services across the country. It is a system design especially for large, premium and small truck Transportation business. The Truck Transportation system provides complete functionality of listing and booking trucks.

This proposed system can be used by any native users and it does not require any educational level, experience or technical expertise in computer field but it will be of good use if user has the good knowledge of how to operate a computer.

OperatingEnvironment:

Server Side:

Processor:Intel®Xeon®processor3500series

HDD:Minimum 500GB Disk Space

RAM: Minimum

4GBOS: Windows 10.

Linux 6Database:MySQL

<u>ClientSide(minimumrequirement):</u>

Processor: IntelDualCore

HDD:Minimum 80GB Disk Space

RAM:Minimum 2GB

OS:Windows 7, Linux

Design and Implementation Constraints:

- The application will use JavaScript,jQueryandCSSasmainwebtechnologies.
- HTTPandFTPprotocolsareusedascommunicationprotocols.FTPisusedtouploadthewe bapplication inlivedomainandtheclientcanaccess itviaHTTPprotocol.
- SMTP protocolis used for Email communication.
- SeveraltypesofvalidationsmakethiswebapplicationasecuredoneandSQLInjectionscan also be prevented.
- Since Truck Transportation System is a web-based application, internet connection must be established.
- The Truck Transportation System will be used on PCs and will function via internet or intranet in any web browser.

3. RequirementsSpecification.

ExternalInterfaceRequirements:

<u>UserInterfaces:</u>

- All the users will see the same page when they enter in this website. This page askstheusers ausernameandapassword.
- After being authenticated by correct username and password, user will be redirect totheir corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonlyunderstood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequentusers.

HardwareInterfaces:

- Noextrahardwareinterfacesareneeded.
- $\bullet \quad The system will use the standard hardware and data communication resources.$

This includes, but not limited to, general network connection at the server/hosting site, networks erver and network management tools.

ApplicationInterfaces:

WebBrowser:

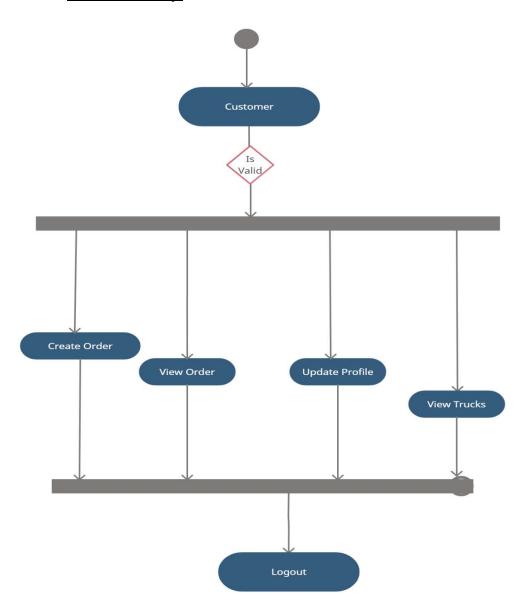
The system is a web-based application; clients need a modern web browser such as MozillaFirebox,InternetExplorer,Opera,andChrome.ThecomputermusthaveanInternetconne ctionin order to beable to access the system.

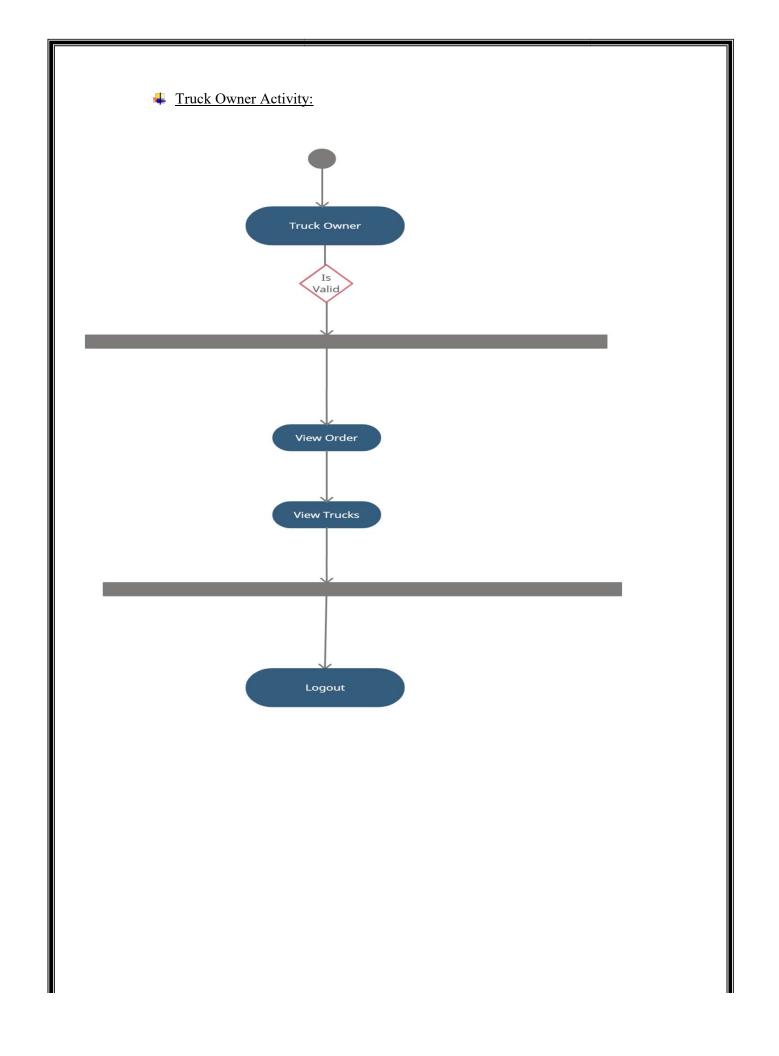
CommunicationsInterfaces:

- This system uses communication resources which includes but not limited to, HTTPprotocol for communication with the web browser and web server andTCP/IPnetworkprotocol with HTTPprotocol.
- This application will communicate with the database that holds all the bookinginformation. Users can contact with server side through HTTP protocol by means
 - ofafunctionthatiscalledHTTPService. This functional lows the application to use the datar etrieved by server to fulfil the request fired by the user.

4. SystemDiagrams.

- ActivityDiagram:
 - **Customer Activity:**

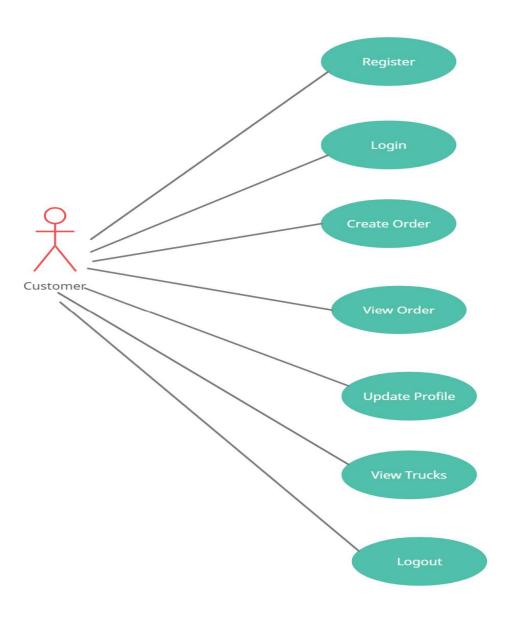




System FlowDiagram Start Register if Register - Yes Login Update Profile End

• <u>UseCaseDiagram</u>:

4 Customer Use-case:



♣ Truck Owner Use-case: Register Login Truck Owner Logout

• ERDiagram:

Visual Paradigm Online Free Edition

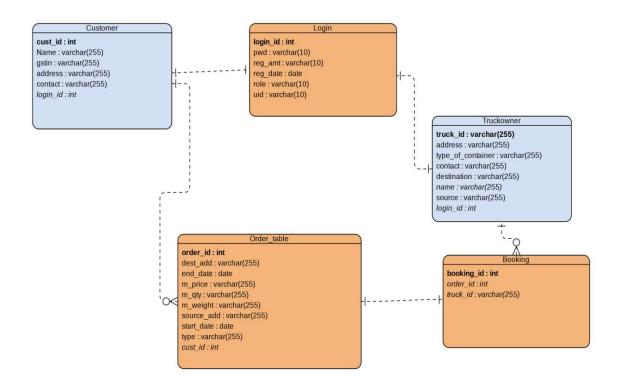


Table Structure.

Customer Registration:

Table Name	Customer
Description	This table is provide the information about Customer.
Primary Key	Id
Foreign Key	login_id

Sr. No	Field Name	Data type(Size)	Constraints	Description
1.	Cust_id	int	Primary key	It is store customer id
2.	address	Varchar(255)	Null	It is store address of User
3.	contact	Varchar(255)	null	It is store contact of customer
4.	Gstin	Varchar(255)	null	It is store gstno
5.	name	Varchar(255)	null	It is store full name of customer
6.	Login_id	int	Foreign key	It is store login id

Booking Table:

Table Name	Booking
Description	This table is provide the information about booking.
Primary Key	Booking_Id
Foreign Key	Order_id, truck_id

Sr. No	Field Name	Data type(Siz e)	Constraints	Description
1	booking_id (Primary)	int(11)	Primary Key	It is used to store booking id
2	order_id	Int	Foreign key	It is used to store order id of customer
3	truck_id	varchar(10)	Foreign key	It is used to store truck id of truck owner

Login Table:

Table Name	login
Description	This table is provide the information about customer and truck owner registration
Primary Key	Id

Sr. No	Field Name	Data type(Size)	Constraints	Description
1	id (Primary)	int	Primary Key	It is used to store login id
2	pwd	varchar(45)	Null	It is used to store User password
3	Reg_amt	varchar(45)	Null	It is used to store registration amount of User
4	Reg_date	date	Null	It is used to store registration date
5	role	varchar(10)	Null	It is used to store role
6	uid	varchar (10)	Null	It is store user id

Order Table:

Table Name	Order
Description	This table is provide the information about order.
Primary Key	order_Id
Foreign Key	truck_id

Sr. No	Field Name		Constraints	Description	
1	Order_id (Prim ary)	int	Primary Key It is used to store order id		
2	Dest_add	varchar(45)	Null	It is used to store destination address of User	
3	End_date	varchar(45)	Null	It is used to store end date	
4	M_price	varchar(40)	Null	It is used to store material price	
5	M_qty	varchar(40)	Null	It is used to store material quantity	
6	Source_add	Varchar(40)	Null	It is used to store source address	
7	Start_date	date	Null	It is used to store start date	
8	status	Varchar(40)	Null	It is used to store status	
9	Cust_id	int	Foreign key	It is used to store customer id	

Truck Owner:

Table Name	truckowner
Description	This table is provide the information about truckowner
Primary Key	Id
Foreign Key	login_id

S.No	Field Name	Data type(Size)	Constraints	Description
1.	Truck_no	Varchar(255)	Primary key	It is used to store truck no
2.	address	Varchar(255)	Null	It is used to store address.
3.	Availability_status	Varchar(255)	Null	It is used to store availability status
4.	contact	Varchar(255)	Null	It is used to store contact no.
5.	destination	Varchar(255)	Null	It is used to store destination.
6.	Name	Varchar(255)	Null	It is used to store name.
7.	Source	Varchar(255)	Null	It is used to store source.
8.	Login_id	int	Foreign key	It is used to store login id.

6 Conclusion.

The entire project has been developed and deployed as per the requirements stated by the Transport agents consultancy, it is found to be bug free as per the testing standards that are implemented. It helps Transport Agents and Customers of Lending Tree and provides effective communication between them to provide the services very promptly with proper procedures. Any specification-untraced errors will be concentrated in the coming versions, which are planned to be developed in near future. The system at present does not take care payments info through this application since it requires payment gateway. Our company is planning to integrate in future and do it as an enhancement

Future Scope :

In future this system can also be added with additional feature like Online Payment Gateway, Online Booking for document verification and tracking of vehicles.

7 Refrences.

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