



WEB BASED SOFTWARE FOR TRUCK SERVICES THROUGH FRANCHISEE

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Abstract:

This paper reports on issues raised during the development of a web-based system for truck services. Our approach exploits through franchisee web-based technology to efficiently handle simple or modular truck owner, driver, merchant requests. The franchises involved in the web-based software represent and act on behalf of two basic types of users involved in a transportation scenario, that is, for customers looking for the appropriate way to ship their products, and for transportation companies (carriers) that may—fully or partially—carry out such requests. In addition, they cooperate with two special-purpose franchises, namely the Broker and the Itinerary Builder, which act as intermediates between customers and carriers, and facilitate the overall management of transportation by coordinating request and offers, constructing possible alternative solutions and facilitating the required decision-making. We provide a process-oriented description of the web-based software, report on the specification of franchises roles and interactions, and discuss various implementation issues.

Keywords: Franchise, Merchant, Truck services, web-based software

Introduction

The word truck service means movement of goods from one place to another, through franchise, modern web-based software technology has been used to create machines that enhance human-power. Human-power transport remains popular for reasons of cost saving, leisure and physical exercise. which is the major aim of the research work, and makes use to transport goods from one place to another. Truck services which is a web-based software information that uses data recorded by franchise as input to produce routine reports to assist truck driver/owner, Marchant. This research work is a Web-Based Road Transport Management System that will aid the franchise in decision making. Web based-software, specifically designed for the transportation sector, serve as digital tools that facilitate and streamline various aspects of operations. From real-time tracking to efficient route planning, these applications are the backbone of modern transportation. A transportation is a web-based software that helps businesses effectively manage transportation operations. It streamlines processes involved in the movement of goods and optimizes transportation networks end-to-end through franchise in each Transport Nagar in every district of states.

Literature Review

" Transportation plays an important role in the development of a country and is an indicator of social and cultural life of its citizens. Concentration of people and transportation are closely related to one another. People

have travelled much in the past and will continue to do so in the future. As long as this travelling continues, the world's cultural and traditional structure will be affected”.

Overview of web-based software

A web-based software diagram presents a layout with all the software components (databases, applications, and middleware) and how they interact. It defines how the data is delivered through franchise and ensures that the truck owner/driver and merchant can understand. Moreover, it also ensures that valid data is present in all user requests. It creates and manages records while providing permission-based access and authentication. It is important to understand the components comprising the architecture of web-based software. Web-Based Software is software you access with just an internet connection and a web browser. There is no software or hardware to purchase, no need to download software, or ever worry about costly product upgrades. Web-based applications give a far greater ability to integrate with other systems than desktop applications. Localized software is isolated compared to web-based applications, which are significantly more interoperable. The web-based software has entered a new era in which continued exponential growth is tempered with a new-found sophistication and maturity. It is impossible to imagine a serious business that does not have at least a basic web presence, while larger commercial enterprises employ sophisticated web applications for online search and e-commerce functions. The proliferation of application development approaches is staggering, with new web-based software development frameworks arising on what seems like a daily basis. This rapidly changing landscape makes it critically important for developers to go back to the basics and learn core Internet technologies.



Truck services contribute in Growth of industries whose product requires quick marketing. Perishable articles like fish and green vegetables are carried to various consumers quickly even in distant markets through transport. **Transport helps in increase in the demand for goods.** Through transport newer customers in newer places can be easily contacted and products can be introduced to them. Today markets have become national or international only because of transport. **Transport creates place utility.** Geographical and climatic factors force industries to be located in particular places far away from the markets and places where there may not be any demand for the products. Transport bridges the gap between production and consumption centers. **Transport creates time utility.** Of late transport has started creating the time utility also. It has been made possible by virtue of the improvements in the speed of transport. It helps the product to be distributed in the minimum possible time. **Transport helps in stabilization of price.** Transport exerts considerable influence upon the

stabilization of the prices of several commodities by moving commodities from surplus to deficit areas. This equalizes the supply and demand factor and makes the price of commodities stable as well as equal. This enables businesses to move their products to other areas of the country and it also allows them to get the products and the supplies they need to continue running their companies. Without the trucking industry, domestic shipping would take a huge hit.



Role of Franchisee

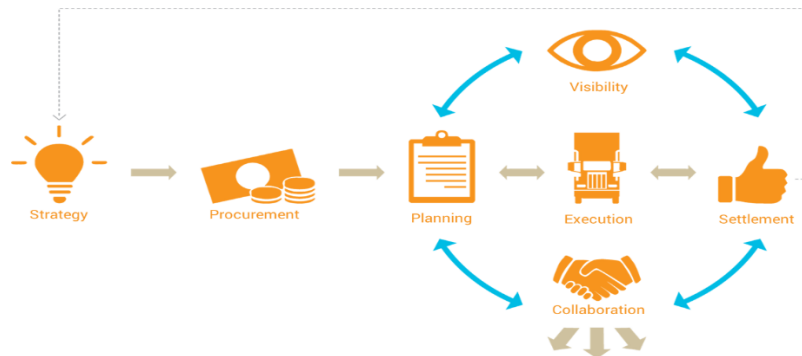
The franchisee is responsible for running their own operation after receiving detail information from truck driver (name of driver, truck number/capacity/goods name/reloading address arriving date & time) and merchant (goods name/cost/weight/loading address/date & time). Franchisee send detail of truck driver to merchant and vice versa. Franchisee may provide training, guidance, and continuous assistance to merchant and truck owner/driver, it is the franchisee's responsibility to run the business on a daily basis. Franchisee will provide registration to both truck owner and merchant yearly basis.



Statement of the problem

A problem statement is a clear and concise description of the problem or challenge that you want to address with your web-based software. It is an essential part of the web-based software development process, as it helps to define the scope of the project and ensure that everyone involved is on the same page. The transportation problem is a type of Linear Programming Problem in which commodities are carried from a set of sources to a set of destinations while taking into account the supply and demand of the sources and destinations, respectively, in order to reduce the total cost of transportation. In software development, the problem statement

says,



“What has to be done” for a project to succeed - to meet the needs of its stakeholders who are external to the development. When you do not have a well-thought problem statement, you risk building a product that solves the wrong problem.

Significance of the study

This enables businesses to move their products to other areas of the country and it also allows them to get the products and the supplies they need to continue running their companies. Without the trucking industry, domestic shipping would take a huge hit. It is essential for trade, exchange and transport. It is a supporting pillar for economic and social development. Without transport connection between countries, countries are isolated with each other and not able to make mass production and distribution for modern agriculture and industrialization. Web-based software give a far greater ability to integrate with transportation. Localized software is isolated compared to web-based software, which are significantly more interoperable. Unlike traditional software, web-based software is accessible anytime, anywhere and via any PC with an Internet connection. Transportation research is vital for improving mobility. Web-based applications offer a good way of accessing centralized data securely. web based software will only be accessed directly by the person or team managing them.

Detail of Franchisee

S.No.	Name	Adress	City	State	Mobile No	Email Id
1	Franchisee1	Transport Nagar	Jhunjhunu	Rajasthan	xxxx12345	abc@gmail.com

Detail of Vehicle

S.No.	Vehicle Name	Vehicle No	from where	To where	Dep. date	Arr. date	Goods name
1	Truck1	RJ18 AB 4125	Ajmer	Delhi	xxxx1	xxxx1	Wheat

Detail of Merchant

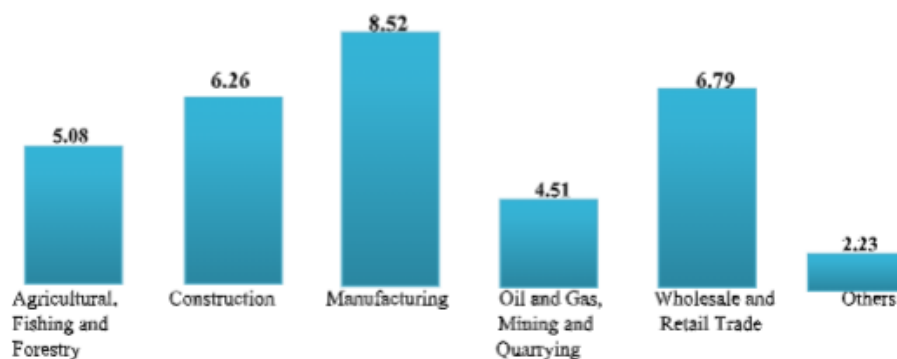
S.No.	Name	Adress	City	State	Mobile No	Email Id	Goods name
1	Merchant1	Transport Nagar	Indore	M.P.	xxxx12345	abc@gmail.com	Onion



Result and Discussion

The designing of a user-friendly web-based software with an electronic form where users can apply for book and obtain other information online. The information about truck/goods interest and other information will be easily stored in the database of the system for easy retrieval. This system is expected to improve the operations of the firm, but the only challenges expected to be faced by the firm with the new system is to carry out proper maintainers of the system. Road Freight Transport Industry in India - Market Size & Statistics. Trucks move roughly 72.6% of the nation's freight by weight. That is just one of many statistics calculated and tracked by American Trucking Associations' professional staff that you can learn about here.

India Road Freight Transport Market, CAGR %, By End User, 2022 – 2028



Conclusion

In this paper, we have developed web-based software system that provides various services, such as vehicle identification, driver/merchant/truck owner authentication, goods localization, franchisee detection, activity recognition and moving vehicle tracking. Web based software has different established event rules and message exchanging rules with transportation. Thus, we have defined the metadata rules to exchange analyzed information between web-based software. The future of truck services in India looks bright, with the increasing demand for e-commerce and home delivery services, and the adoption of new technologies. Web based applications can offer competitive advantages to traditional software-based Systems allowing businesses to streamline information and processes with reduced costs.



References

1. Jean Paul Trembley and Paul G. Sorenson, "An Introduction to Data Structures with applications", McGraw Hill
2. Korth, Silbertz, Sudarshan," Database Concepts", McGraw Hill
3. Majumdar & Bhattacharya, "Database Management System", TMH
4. Ian Pouncey, Richard York, "Beginning CSS: Cascading Style Sheets for Web Design", Wiley India
5. George Reese, "Cloud Application Architectures: Building Applications and Infrastructure in the Cloud: Transactional Systems for EC2 and Beyond (Theory in Practice), O'Reilly, 2009
6. RS Pressman, Software Engineering: A Practitioners Approach, McGraw Hill
7. Burdman, Jessica, "Collaborative Web Development" Addison Wesley
8. Andrew Tanenbaum "Computer Networks", Prentice Hall
9. Kurose and Ross, "Computer Networking- A Top-Down Approach", Pearson
10. <https://www.w3schools.com/>