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Survey Paper: Modern Logistics Vehicle System Using Tracking and Security

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ABSTRACT: The Movers and Packers systems have emerged recently with the development of Global Positioning System (GPS), mobile communication technologies, sensor and wireless networking technologies. The Movers and Packers systems are very important as they can contribute to several benefits such as suggesting right places for getting customers, increasing revenue of truck drivers, reducing waiting time, traffic jams as well as minimizing fuel consumption and hence increasing the number of trips the drivers can perform. The main purpose of this system would be supplying required vehicles that would be used to meet customer demands through the planning, control and implementation of the effective movement and storage of related information and services from origin to destination. We have to provide end to end security for customer and provider data by using QR code concept. We are recommendation of nearest best service provider according to user interest and detect spam service provider. Logistics management refers to the responsibility and management of design and administer systems to control the movement and geographical positioning of raw materials, work-in-process, and finished inventories at the lowest total cost. Coordination includes the administration of request preparing, stock, transportation, and the blend of warehousing, materials dealing with, and bundling, all incorporated all through a system of offices.

KEYWORDS: Logistic system, Vehicle routing, Request allocation, Intelligent transportation, QR Code

I. INTRODUCTION

To solve the issues of traditional movers and packers systems, a web based solution has been proposed that will allow both the customers and the service providers to track the vehicles while transportation and also helps to provide best services to the customers at lowest cost by recommending only available service providers at preferred cost. In Logistic systems focused scope on public transportation services have been studied extensively. Generally, these logistic management systems can be divided roughly into two categories. The first category showing vehicles according to the dynamic requests. The second category showing vehicles according to historic trajectories of the mobility patterns of customers using GPS.



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II. LITERATURE SURVEY

1. Product allocation to different types of distribution centre in retail logistics networks

In this system, study about novel solution approach is developed and applied to a real-life case of a leading European grocery retail chain. Learn about City compose will supplant nation or area as the most significant division measurement that decides versatility conduct. A further aspect arises from assuming identical store delivery frequencies in outbound transportation from all DC types.

2. Autonomous vehicle logistic system: Joint routing and charging strategy

Principle point of this framework to roll out the unavoidable improvements more substantial. Begin from the general agreement that the business is changing and go further to indicate and measure the extent of progress. Inside a more perplexing and expanded versatility industry scene, occupant players will be compelled to at the same time contend on different fronts and participate with organization. City compose will supplant nation or district as the most significant division measurement that decides versatility conduct.

3. The dynamic vehicle allocation problem with application in trucking companies in Brazil

This paper manages the dynamic vehicle assignment issue (DVAP) in street transportation of full truckloads between terminals. The DVAP includes multi-period asset allotment and comprises of characterizing the developments of an armada of vehicles that vehicle products between terminals with a wide land circulation. The consequences of a useful approval of the model and arrangement strategies proposed, isn't plainly specified.

4. Road-based goods transportation: A survey of real-world logistics applications from 2000 to 2015

This paper gives a review of the fundamental genuine utilizations of street based merchandise transportation over the previous 15 years. It audits papers in the territories of oil, gas and fuel transportation, retail, squander gathering and administration, mail and bundle conveyance and nourishment circulation. Take care of Integration of steering issues with different parts of the store network. Another promising zone of research is the reconciliation of vehicle directing with other transportation modes, for example, ships and prepares isn't say.

5. Integration of vehicle routing and resource allocation in a dynamic logistics network

This proposed framework presents a multi-period, incorporated vehicle directing and asset distribution issue. Ignoring interdependencies between vehicle directing and asset portion appears to be mediocre. A combination of the two issues defeats this inadequacy. The two sub-issues can be settled successively (SP), by methods for various leveled basic leadership (FI), or model update (DI). The last two methodologies are gotten from Geoffrion's idea of model mix. An issue a stochastic programming approach regarding the transportation issue isn't resolve.

6. An Automated Taxi Booking and Scheduling System

This proposed framework presents an Automated Taxi Booking and Scheduling System with safe booking. The framework gives an advantageous, guaranteed and safe reserving for the two cab drivers and enlisted clients through cell phones. For more clients are the in the time are arrived then issues happened, there are no taxi parking, focal workplaces or a booking framework for the substantial number of cabs.

III. EXISTING SYSTEM APPROACH

Logistic management systems are very important as they can contribute to several benefits such as suggesting right places for getting Customers, increasing revenue to truck drivers, reducing waiting time, avoiding traffic jams as well as minimizing fuel consumption and hence increasing the number of trips the drivers can perform. In existing system admin have to provide authentication permission to provider and only admin can view vehicles, customers and providers. In this system, provider can add vehicles and drivers, also view customer requests and send notification to drivers. In this system, customers can view vehicles, search vehicles, request vehicles and do payment according to the trip.

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IV. PROPOSED SYSTEM APPROACH

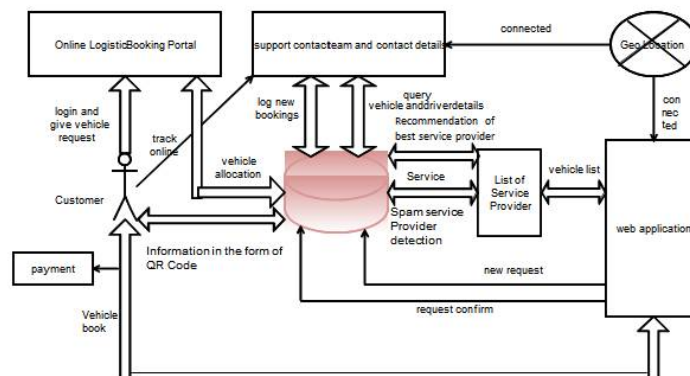


Fig.1 Block Diagram of Proposed System

In the traditional system for movers and packers, customers need to search for providers and the required vehicles to make transportation successful. This leads to increase in waiting time for customer and also the customer is unable to trace out the current location of transported material. The main thing in our system is, we have to provide end to end security for customer and provider data by using QR code concept. In QR code binary image we have to hide customer and provider data, only authorized customer can view data. For customer interest mining we used collaborative filtering method. The main principle of this method is recommendation of vehicle according to provider service. Recommendation is used to find user interest and provide related event. Customer advice is a term which is used in the sense to interest mining. One can give guidance for the issue or can essentially give an answer. Counsel, is by all accounts a supposition with order or control and even control. Recommendation resembles, a client enthusiasm opening about administration is utilized for new client to utilize specialist organization vehicle. We have to provide end to end security for customer and provider data by using QR code concept.

V. CONCLUSION

The proposed system consists of service provider, customer and admin, driver where admin is one of the most important part in system. Here customer will book the vehicle and trace the current location using GPS tracking. Logistic alludes to the duty to plan and oversee frameworks to control development and land situating of crude materials, work-in-process, and completed inventories at the least aggregate expense. The proposed system focuses on delivery of goods, raw materials, shifting home appliances, furniture while relocation. It also includes management of order processing, inventory, transportation, and the combination of warehousing, materials handling, and packaging, all integrated throughout a network of facilities. We have to provide end to end security for customer and provider data by using QR code concept. We are recommendation of nearest best service provider according to user interest.

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