E-Logistic System

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Abstract-In most of the cities, the transportation industry is highly regulated and utilizes the traditional techniques. However, people faces many problems such as searching for the vehicle as per their requirement which results wastage of time as well as it is hectic. The purpose of our project is to build E-Logistics, an online system for the customers where they can search for the appropriate vehicle and book them for their goods transportation with live updates. The system will estimate the cost via algorithm, the required amount of time between the source and destination is calculated using Algorithm, optimal route is selected and tracking of goods carrying vehicle is done through Google Map's API. So through our system customer can easily search for the vehicle within his/her nearby source location as per the requirement and can get live updates that assures for delivery of goods.

Keywords—Booking, Driver, E-Logistics, Google API, Live Tracking.

I. INTRODUCTION

In traditional transportation approach, if a user wants to transport the goods, he/she needs to go to the transport office and has to enquire about the vehicle, cost. If he/she is satisfied with the amount of ride and vehicle, he has to do the payment. Driver of transportation then picks up the good from source and delivers it to the destination within appropriate amount of time. Here the user can't track the good's location as there is no online system or portal for it. All the drivers and user's information, goods record, vehicles record are not in a systematic manner nor a database is being managed. Even transportation done in a day or in a week or in a month can't be estimated efficiently.

So by considering all these stuffs and the hectic which the user suffers from as well as the transportation management system, it became mandatory that there should be an online system for ease and proper management. In this paper, we propose an online E-Logistic system, through which transportation of goods became straightforward, hassle free and effortless for the user and for transportation management also. By this online system, a user can search for the vehicle as per their requirement and by entering source and destination they can view the estimated amount of time, distance and cost also. The main thing here is user can lively track their ride of goods. If the user is satisfied, then the ride is instantly booked, an invoice is being generated and a notification is being provoked to them. Driver picks up the goods from source location and dispatches them to the destination.

II. OBJECTIVE AND SCOPE

The purpose of our project is to build E-Logistics, an online system for the customers where they can search for the appropriate vehicle and book them for their goods transportation with live updates. The system will estimate the cost, the required amount of time between the source and destination is calculated, optimal route is selected and tracking of goods carrying vehicle is done.

It can be expanded further by building a Chabot for customer assistance which would be available 24*7.Android application can be built for more feasibility.

It can be made for inter cities transportation as of now it is only intra city.People who wants to invest can put their new trucks in this system and can earn or have profit easily by doing one time investment.

Increase in the employment of the truck drivers as they can get more and more calls for the goods transportation.

III. WORKING OF PROJECT

The user i.e customer signs-up in the system. After sign-in user inputs the source, destination and weight of the goods which is to be delivered. After submitting the values, user gets the estimated time, estimated cost, optimal path and vehicle according to the weight for the delivery. Once user confirms the booking, driver is assigned to that particular us he gets the estimated time for the vehicle to reach the source, once the good is loaded and moves towards the destination, the user can live track the movement of the vehicle. Once the vehicle reaches the destination, the user can will have to pay charges of the service online or by cash.

IV. PROPOSED SYSTEM AND MODULES





Fig. 1: System Architecture

a). Login

• User Login

User enters his credentials or registers himself if he is new to the system. Once entered, he will be logged in to the system and will be able to book transport vehicle. Without getting log in, no user can book the trip. After logging, user would be able to book the trip.

• Driver Login

Driver logs in to the system with his driver id to get connected with the system. If the driver ison duty, he has to logs in with his driver's id and can get out of the system by logging out. As some user confirms the booking, particular driver is being assigned to them. Once the user is connected, he is available to take the orders for deliveries.

• Admin Login

Admin will login to check the whole status of the system. He/she can remotely access the system and can view the system. Assigns the duty or assigns the trip to the driver as the user books. Estimates the total cost for the day and can analyses his/her profit. After analyzing , can change the

on and dispatches it to the destination.

system or can update the system. Whole the responsibilities of the system is on the shoulder of admin.

b). Booking

After entering source and destination and getting trip estimation if user wishes to book the vehicle then he confirms the booking. As the trip is confirmed, the driver is assigned, he takes the luggage from source and delivers it to mentioned destination. All this booking information is stored in the database. After booking, payment mode is being chosen by the user. Invoice is being generated and Booking Id is assigned to the user through which further he would be recognized.

c). Location Tracker

Tracking of goods carrying vehicle is done by the user using Google Map's API. Through this, the best optimal route, distance, time is being calculated and live tracking of vehicle is shown.

d). Driver

After the confirmation of trip by the user, particular driver is being assigned to that user's luggage. Driver takes the luggage from the source location and dispatches it to the destination.



Fig. 2 Use-case Diagram

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V. CONCLUSION

So through our system, customer can easily search for the transport vehicle within his/hernearby source location, that will save customer's ample amount of time. Customer can search the vehicle by its size and capacity of goods, if customer want to transport less goods then it will go for small vehicle, its cost will be less then the big size vehicle which ultimately saves money of customer. Also user can get live updates about the vehicle, that assures safe delivery of goods.

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