

Deliver Doo - Truck Delivery Managing Web & App

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Abstract - In the last decade, the logistics industry has integrated technological developments in their operations and have encourage innovative ways to carry out shipping and deliveries to ensure they are done in an accurate and timely manner. Logistics companies were among the first to adopt mobile solutions to oversee and supervise their processes. Every logistics process needs constant development and improvements and mobile technology can be a great help to achieve that. Mobile apps for logistics can bring many benefits to the industry such as helping managers with functions that include transportation optimization, load management and load planning. Paper work order forms and service orders get lost often or can end up incomplete, incorrect and, in many cases, illegible. Using mobile apps and website mobile forms, drivers can gather the necessary data and store it in the company's database or in their mobiles devices. Deploying mobile forms, organizations can collect data and measure relevant metrics like driving time and mileage.

Key Words: transportation, delivery management, logistics, information system, mobile application.

1. INTRODUCTION

In goods & logistics delivery business Service Encounter does not happen frequently because in delivery business there is no direct interaction with drivers/working users. Consumers usually rely on information updated on company search engine portals. Customer make their choices, perception by reading reviews and ratings given by critics and seasoned customers. Today's complex logistics and supply chain management demands the continuous monitoring and managing of ever increasing shipment chains. This motivates the need for goods centric tracking and tracing of logistics items, which ensures the opportunity to increase visibility and control in different logistics operations of a company. Recent technological developments enable manufacturing companies to trace and track goods over their entire life cycle and manage supply chain operations across organizational boundaries. Vehicle Tracking System using GPS of smartphone. In this paper GPS based vehicle tracking/navigation system is to be implemented. This is done by fetching the information of the vehicle like location, distance, etc. by using GPS and

GSM.

2. LITERATURE SURVEY

Transport managers have to make quite difficult decisions regarding the loading of vehicles, owing to the almost exclusively one-directional movement of freight consignments from point of production to point of consumption, The challenge in the freight industry is to find backloads for returning vehicles, by making use of spare capacity on the return leg of a delivery journey (McKinnon & Ge, 2006).

Over the last 30 years in the UK the proportion of empty running by trucks has steadily declined, with resultant economic and environmental benefits (McKinnon & Ge, 2006); although in the last couple of years this downward trend has faltered, leaving the question as to whether stable levels have been reached. Ultimately though, some transport practitioners believe that empty running will stabilise at around the mid. to low 20% (McKinnon, 2006, per. comm). Within these overall figures there can be wide variations between sectors, even when different fleets are engaged in similar delivery patterns. Léonardi & Baumgartner (2004) found that in Germany the container transportation business recorded almost half their truck kilometers as running empty (48%), whilst in Britain the retail sector tends to have slightly lower than average empty running of vehicles (McKinnon, 2004). This may possibly be explained by the sector using 'dedicated' equipment, such as roll cages that are not necessarily classed as empty running when returned from supermarkets (Department for Transport, 2003a). Despite being essential to the retail logistics operation, dedicated equipment could be consolidated into returns of fewer trips, thereby freeing-up vehicle capacity for other deliveries (Department for the Environment, Transport and the regions, 1999b),

3. PROBLEM STATEMENT

According to Wikipedia the use of transport services has been in existence right from the ancient days. Tracing back to those days when runners and homing pigeons and riders on horseback were used to deliver timely messages. Earlier in 1990s the transport system provides the service

but with less efficiency in terms of delivery, comfort, and cost estimation. Tracking the current location of the truck was difficult. A lot of users were complaining regarding to the late delivery and unable to track the truck location. He\She spend some hours waiting for delivery of the parcel. Hence delay is bound to occur while delivering to customers. Customers get trouble while booking for truck to ship their stuff online, and also its difficult for the user to trust on driver or his agency. The bad service was the main issue of before earlier but with this deliver doo you can easily get the info regarding your delivery and even track your delivery and also pick a truck which is available.

3.1 SOLUTION- NEED OF THE PROJECT

Transportation management system is a software application to maintain day to day transactions. Using this system user can manage transport work. He can select vehicle to transport the goods. He can also track the vehicle delivery of goods. Customer can also book good transport order online. User can also check his goods delivery status online.

4. PROPOSED SYSTEM

Proposed system will automate all the work done manually in existing transport system. It will store all the records of goods delivery. Using this system user can online check rates of transportation and routes to the destination. Here user can check everything online and can book his order to transport his goods. User can also manage billing operation of transportation. Admin can also check which truck is available for transportation and how long it takes to reach the delivery point. This system provides the basic components of a shared information system to support the collaboration, rates, routes, roles, transaction sets, documents, and information exchanged to facilitate the booking, execution, and settlement of any type of transportation movement.

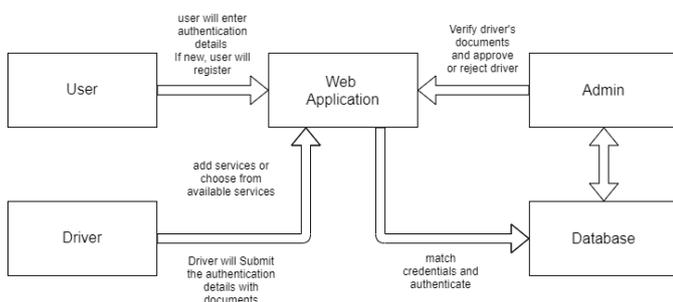


Figure 1 Block Diagram

This system have been developed, which is based on conventional database, However, previous systems cannot efficiently retrieve location data of vehicles, because conventional databases did not take into consideration about property of moving object data such as continuously

changing location overtime. In this, we design the vehicle information management system that is able to manage and retrieve vehicle locations efficiently in mobile environment. Our proposed system consists of vehicle information collector, vehicle information management server, and mobile clients. The system is able to not only process spatiotemporal queries related to locations of moving vehicles but also provide moving vehicles' locations which are not stored in the system. The system is also able to manage vehicle location data effectively using moving object index.

4.1 WORKING

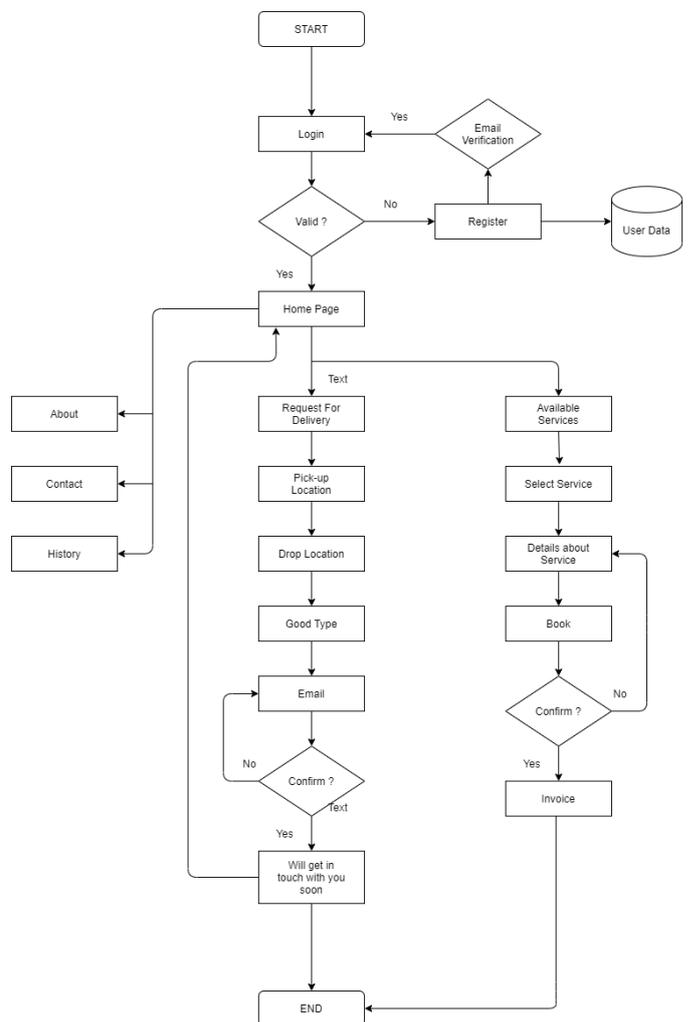


Figure 2 System Flowchart

- First open the Application or Website in your mobile phone or Computer.
- Then if you are an existing user then login with your appropriate ID and password.
- And if you are a new user then Sign in with entering your all details like Name, contact number, Your Email Address, etc and if you register as a driver then upload the documents as well and proves that you are the authorized person.

- Then you can able to use the web & application.
- If you are user then you can request for services or choose from the available services.
- Same for the driver as well, drivers also able to add the services.
- After selecting the service user can contact with drivers for delivery.
- Once the delivery starts you can track the drivers location.

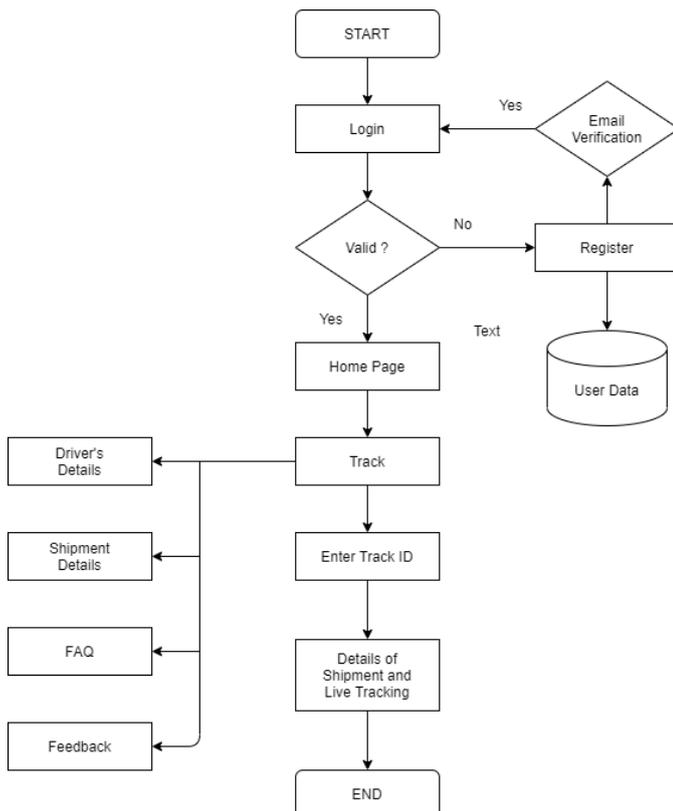


Figure 3 Track Page Flowchart

5. FUTURE SCOPE

E-commerce has bloomed over the years and is one of the fastest-growing domains in the online world. Though it took some time for this to be accepted by the end-users, today we are at a point where the majority of the people love to shop online. As part of future work, to make the system fully automatic and also to overcome the above limitations in future.

- Online Chat.
- Overseas Service.
- Premium Delivery Options

6. CONCLUSIONS

The Android-based application and Web Based Deliver Doo personnel in navigating to the customers address and facilitating the communication between the two parties. This system definitely useful in helping the courier service to provide better delivery time for customers and better communication with the customers. You can track your goods parcel from home and also have a functionality of camera

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BIOGRAPHIES



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