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Goods Tracking and Management System Using Mobile Application

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ABSTRACT: Goods Tracking system project helps transportation company to manage Trucks, Drivers and Customers. The basic aim of this Goods Tracking system project is provide easy and automatic management of resources and direct driver to the destination. It helps to automate transport operation like payment, booking order, delivery report, generating transactions receipt etc. in a transport office. Using this system admin can store transport office work like billing, tracking payments, creating report etc. The main job of the transporter is to provide transport service to sender and receiver. Current location of the goods can be given through driver location. Customers can contact the administrator if there should be an occurrence of any question. It is a software application to maintain day to day transactions in transport office. Using this system user can manage transport work. Admin can select vehicle to transport the goods. He can also track the vehicle delivery of goods. User can also check his goods delivery status.

KEYWORDS: Goods Tracking system, automate transport operation like payment.

I. INTRODUCTION

The purpose of developing Goods Tracking System is to automate the complete operations of the goods transporter office.
In current system all work is getting done manually. User have to manage many things so it is very difficult to manage this business doing work manually. Using this system user can automate many transport operation like billing, tracking payments, creating report etc. Using this system keeping records of transportation is easy. User can find any old records in few clicks. User can also generate old delivery reports and other report easily. They need maintain hundreds of thousands of records. Also searching should be very faster so they can find required details instantly.

II. RELATED WORK

In existing system all work is done manually. In this system it is very difficult to find old records. Since all work is done manually, it takes time to give report to management regarding their query. To book an order user have to come transportation office. User can also not able to check his goods delivery status. All work is done on paper so it is error prone system. Sometime it is very difficult to manage all transport delivery. So an automated system is needed to computerize all these activity.The existing system is not user friendly because the retrieval of data is very slow and data is not maintained efficient. We require more calculations to generate the report so it is generated at the end of the delivery.
All calculations to generate report is done manually so there is greater chance of errors.Existing system requires lot of paperwork. Loss of even a single register/record led to difficult situationbecause all the papers are needed to generate the reports. Every work is done manually so we cannotgenerate report in the middle of the session or as per the requirement because it is very time consuming.

III. PROPOSED ALGORITHM

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 check rates of transportation and routes to the destination. Here user can check everything 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 provide 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. In addition to these it gives route to the driver and driver can update the current location of the goods. The system being developed is economic with respect to transport system point of

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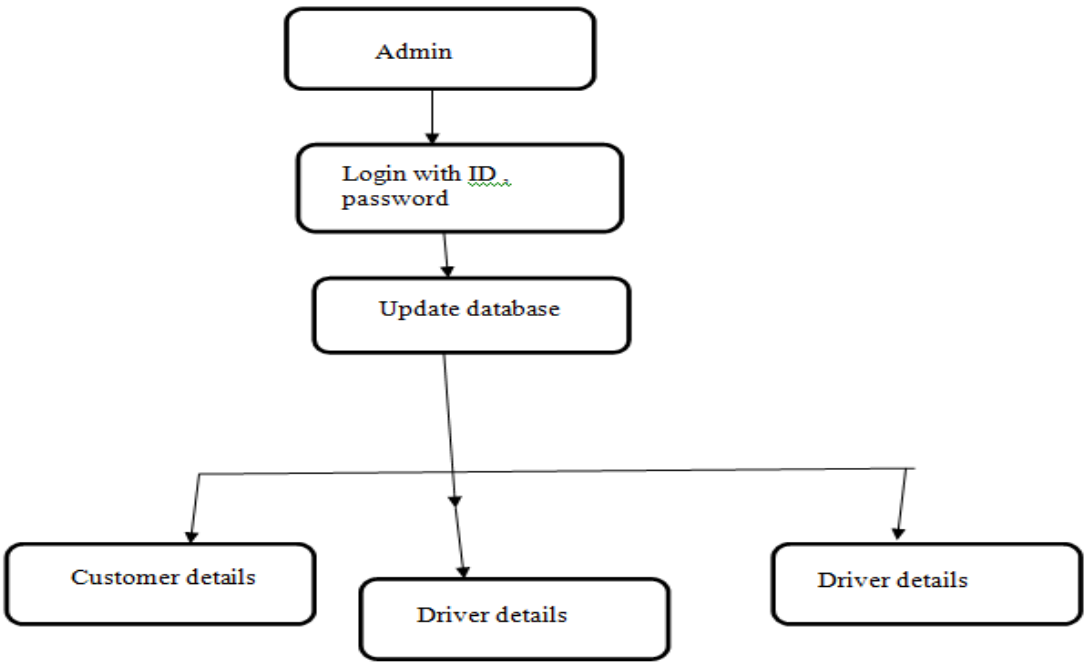
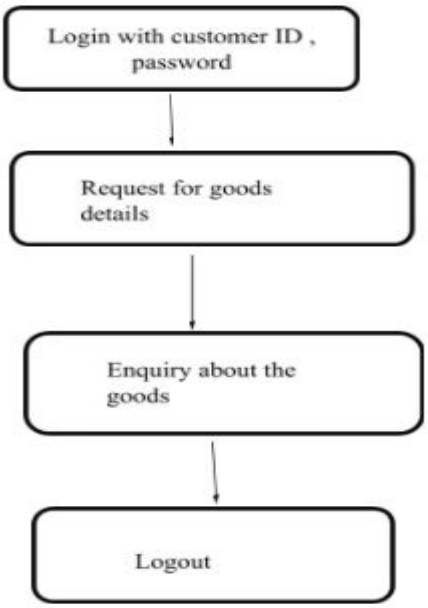
view. It is cost effective in the sense that has eliminated the paperwork completely. The system is also time effective because the calculations are automated which are made at the end of the day or as per the user requirement. The result obtained contains minimum errors and are highly accurate as the data is required. The technical requirement for the system is economic and it does not use any other additional Hardware and software. The system working is quite easy to use and learn due to its simple but attractive interface. User requires no special training for operating

IV. ARCHITECTURE DIAGRAM

Admin:



Customer:



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V. PROPOSED SYSTEM STEPS

WEB:

- **ADMIN LOGIN:**

This page is used to authorize the user.
This the first page as well as getting into the project.

- **PROFILE:**

This page is used to show the admin actions like insertion, completion etc.,

- **INSERT:**

This page is used to select the field to insert record like driver details, truck details, order details.

- **DRIVER DETAILS INSERTION:**

Here we can insert the driver information to the driver table.

- **CUSTOMER DETAILS INSERTION:**

Here we can insert the customer's order details to the customer table.

- **TRUCK DETAILS INSERTION:**

Here we can insert the truck details to the truck table.

- **DRIVERS INFORMATION TABLE:**

This page shows the drivers details.

- **CUSTOMERS INFORMATION TABLE:**

This page shows the customers details.

- **TRUCK INFORMATION TABLE:**

This page shows the trucks details.

- **ABOUT(CONTACT):**

This page contains the contact details of the transport company.

- **COMPLETION:**

This page contains the details of the completed orders.

- **LOCATION:**

This page contains the current location of the goods.

- **COORDINATES DETECTION:**

This page contains the location coordinates.

APP:

- **Driver Login:**

This is the login page for the drivers of the transport company.

- **Home:**

This is the home page for the driver which contains my plan, truck details, my plans.

- **Profile:**

Here the personal details are shown up.

- **My Activity:**

Here the activity of the driver is being recorded.

- **Notifications:**

Here the notifications are displayed.

- **Settings:**

Here the settings for the app are given.

- **Privacy policy:**

Here the privacy policy details of the company are given.

- **About us:**

Here the contact details of the transport company are displayed.

- **Route details:**

Here the driver can see the route directed from the departure to the delivery point.

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- **Completion:**

This page contains the details of the receiver who receives the goods from the driver.

- **Digital Signature:**

This page is used to store the digital signature.

VI.CONCLUSION AND FUTUREWORK

This project has showed a real-time and low cost tracking system using GPS. In the future we may integrate other related devices in a vehicle such as sensors. You can determine your location, whether you are travelling locally or in a foreign land, having a GPS is truly an advantage. It is a typical example of how the advantages may be forced for the efficient and effective managing the goods easily. GPS in vehicles can certainly bring a revolutionary impact in transportation science in a developing country. It is highly accurate yet inexpensive vehicle tracking and navigation solution which is the need of the hour in fast moving urban cities. It act as a vehicle management software for transport companies. In future there can be some enhancement need in this project like Tracking of valuable assets and anti-theft system.

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