CAB Pooling System

OBJECTIVE:

We aim to become a pioneer in the vehicle rental industry by completely focusing on customers, our employees, growth, innovation and efficiency. All of these elements will drive us towards success and show us as one company that can perform and give value for money.

Project Overview

When it comes to cab rental services, Cab Service is the most trusted and reliable name in the travel business. The most advanced travel agents offering cab rental and car hire in India, making full use of information technology to improve the level of our efficiency. However, this is only one aspect of services. And this project continually strives to offer the best of services - both in terms of man and machine, to our clients.

Moreover, this project has a fleet of cars ranging from luxury to budget cabs. While, it offers online cab hire service for corporate houses. And this project claim to offer the best of rates, which are tailor-made depending upon the facilities, availed and offer both intercity and intra-city cab facilities. All cabs have proper permits and documentation so that the clients couldn't be hassled for the lack of documents. However, this project has strategic backup system for any eventuality. Cab drivers are educated, polite, and reliable and are trained to handle acute breakdowns. The cab service includes all categories of cars from luxury to budget.

Further, this project's utmost priority is quality. To achieve this, vehicles are well maintained and tested for delivering optimum and uninterrupted performance. Team of professionals in the travel business enables this system to design trips that suits to all budgets and preferences of the travelers. In addition, workforce including drivers and administrative staff are well trained to discharge their duties with a lot of efficiency.

Proposed System

In the Previous System, Details are Stored Manually in papers, to share the details between employees was a financial drawback. Updations in the details are a tedious task.

But a new system was proposed to overcome the above drawbacks.

Functionalities and advantages of proposed system are:

- Data is centralized which has overcome the Sharing problem in previous system.

- As data is maintained electronically, it's easy for a person to update the details, which has overcome the tedious updation in previous system.

- Maintenance is easy and performance is good.

- Mainly the system has automated the Transportation Process.

Limitations

Cool Cab Services is a Web application and it is restricted to only limited type of users. In this application, Different types of managers have been given access rights and they are restricted up to their functionalities, so that the data is maintained securely and redundant data is prevented. As the Data is stored electronically, it is necessary to have a Computer and Network connection to access the Application. Here the Details of Employees and Drivers, cabs are maintained but accounts to these people are not created. Using this application mangers do assign or update the batch, shift of cabs to drivers and employees. But employees are unable to view their details.

Benefits

• This online cab rental solution is fully functional and flexible.

• It is very easy to use.

• This online cab rental system helps in back office administration by streamlining and standardizing the procedures.

• It saves a lot of time, money and labor.

• Eco-friendly: The monitoring of the vehicle activity and the overall business becomes easy and includes the least of paper work.

• The software acts as an office that is open 24/7.

• It increases the efficiency of the management at offering quality services to the customers.

• It provides custom features development and support with the software.

BACKGROUND:

Existing System

Cab Pooling Service is an innovative thought to simplify the Transportation problems of Employees of an organization. In the present System, Organization do maintain a person for the allocating and proper functioning of transportation .The Person appointed needs to look after the assigning and

movement of cabs. Authorized person maintains the transportation details in papers, which is a tedious task if any updations or changes need to be done.

> Details are stored in Papers.

> Maintenance is a huge problem.

> Updation, changes in details is a tedious task.

> Performance is not achieved up to the requirements.

Problems in the Existing System

The existence system has a number of problems in the working procedure for the organization and customers. These problems are: -

1. During reservation a customer reserve a vehicle on phone or expected to go to the organization for reserving. This has its own problem in the business sector.

> The organization phone may be busy or may not work when customer is calling to make reservation.

> It may be difficult to customers to get the phone number or the location of the organization.

> The customers may be resulted to unnecessary extra expense and waste their time.

> There may accrue duplicated reservation of the same vehicle.

> The organization may not be able to serve many customers.

> The customers may not get service of the organization 24/7 (twenty four hours a day and seven days a week) and limiting their service to local domain only.

2. During renting a vehicle, the customer information and contract made between them are filled in a form.

> The contract form made between the customer and organization may be difficult to find in case of misplacing or disappearing due to massive collection of data.

3. During generating monthly report.

> When generating report, it takes time and it may not be easy to manage and analysis the monthly work due to massive collection of data and the generated report may not be accurate.

Need For New System

The new system is totally computerized system.

• A new system provides features like time efficiency to show car details, user profiles and whatever the customer will give the feedback to the admin.

• This system provides tourism and travelling facilities.

• An inquiry is easily done by user in the system.

• It is the most software application for managing online car rental or pooling business.

Problem Statement

A car pooling is a vehicle that can be used temporarily for a fee during a specified period. Getting a rental car helps people get around despite the fact they do not have access to their own personal vehicle or don't own a vehicle at all. The individual who needs a car must contact a rental car company and contract out for a vehicle. This system increases customer retention and simplify vehicle and staff management.

Future Enhancements

Every Edition of a book comes with new topics and modifications if any errors are present. In the similar way, in near future, our application will overcome the flaws if occurred, and attains new features offered to employees for the Flexible and easy Transportation. Following are the Enhancements to the application.

> Providing Good User Interface.

> Providing access permissions to the employees

> Try to Implement the GPS system in the Cabs.

FUNCTIONAL REQUIREMENT:

Requirement analysis is a software engineering technique that is composed of the various tasks that determine the needs or conditions that are to be met for a new or altered product, taking into consideration the possible conflicting requirements of the various users.

Functional requirements are those requirements that are used to illustrate the internal working nature of the system, the description of the system, and explanation of each subsystem. It consists of what task the system should perform, the processes involved, which data should the system holds and the

interfaces with the user. The functional requirements identified are:

Module Specification

- **View Available Cars:**

It is a system design especially for large, premium and small car rental business.

The user can view Available cars and user can book for that car.

- **Booking Car:**

The user can view Available cars and user can book for that car.

- **Easily Get the Car on rent:**

The Customer can easily get the car whenever they need to on the rent with use of this system.

- **Give Feedback:**

The customer will give the feedback to the admin.

- **Enquiry:**

The inquiry can easily do by user.

- **Add Car:**

The Admin can add the car so that the user can see the available cars and book the car.

- **Manage Rent:**

The Admin can manage the rent so that the user can see the rent and book the car.

- **View Feedback:**

The admin easily view the feedbacks and solve the query.

NON-FUNCTIONAL REQUIREMENT:

Non-functional requirements, as the name suggests, are requirements that are not directly concerned with the specific services delivered by the system to its users. They may relate to emergent system properties such as reliability, response time, and store occupancy. Alternatively, they may define constraints on the system implementation such as the capabilities of I/O devices or the data representations used in interfaces with other systems. Non-functional requirements, such as performance, security, or availability, usually specify or constrain characteristics of the system as a whole.

Scalability - The system can be scalable from small to a large business.

Availability - The system should always be available for access at 24 hours, 7 days a week. Also in the occurrence of any major system malfunctioning, the system should be available in 1 to 2 working days, so that business process is not severely affected.

Performance – The system response time for every instruction conducted by the user must not exceed more than a minimum of 10 seconds.

The system should have high performance rate when executing user's input and should be able to provide response within a short time span usually 50 second for highly complicated task and 20 to 25 seconds for less complicated task.

Usability – The system provides a help and support menu in all interfaces for the user to interact with the system.

The user can use the system by reading help and support.

Security requirement - The system provides username and password to prevent the system from unauthorized access.

The staffs' password must be greater than eight characters.