Online Car Rental System

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Abstract—The purpose of Car Rental System is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Car Rental System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

I. INTRODUCTION

Online Car Rental system will provide the business owner to handle their business in much easier fashion. A number of built in modules has been added such as vehicle history details, their engine and parts details, insurance registration and expiration details, vehicle check in and check out details, vehicle servicing details, payment details etc.

Admin will also have to facility to check their customers and suppliers details and their payment mode and status details along with date and time. First time customers will have to create a profile if they are taking a car on rent and select the appropriate payment mode.

However customers are taking this service by visiting the office, they will get their id and password from the admin side. Users will have the facility to select the type of car, search particular car by their brand name. Upon selection of particular type users will able to get their entire details such as rent type, cost for taking a particular car, mileage details in kilometer per hour. Users will have the facility to fill the basic information details such as name, address, total number of family members who will travel through the car, number of days to take service, location to travel etc.

This Online Car Rental system make processing task easier and eliminates the traditional record keeping process. All information will be available on time whenever and wherever required by the authentic person. Customers will have the facility to add their current travelling locations and due to which admin will have the facility to track their car.

Customers can cancel their booking status any time or change their car type and select other one. Customers will also have the authority to change their travelling details. Automatic reminder feature has been added under the admin side through which admin will get live status regarding license, insurance, parts replacement, servicing details for a particular car. Shop owner will able to directly perform business operation with their suppliers by using their shop number, address and contact details and will get the list of suppliers on the basis of parts and accessories type.

II. MODULES

The system after careful analysis has been identified to be presented with the following modules:

The Modules involved are

- Users
- Admin
- Guest
- Guest Users

Guest user can view the website and checkout the information about rental cars.

Guest user can also enquiry through contact us page.

Register Users

Anyone can register through registration page. After successful registration user can login with valid email
and password. User can recover own password by providing some registered info.
After successful login user can do following things—
• Car Booking
• View Car booking history
• Update His/Her profile
• Update his/her password
• Post Testimonials
• View Testimonials
• Logout
Admin
Admin is the super user of website who can manage everything on the website.
Admin Features—
• Admin can create vehicle brands
• Manage Vehicle Brands(Edit, Delete)
• Post Vehicle
• Manage vehicle(Edit, Delete)
• Manage Booking(Admin can confirm and Cancel Booking)
• Manage Testimonials (Active and Inactive)
• Manage Contact us Query
• Admin Can the details of registered users
• admin can also update the page content
• Admin can update the contact us details
• Manage Subscribers
• Admin Dashboard(Admin can view the count of reg users, total booking, total subscribers, total queries etc)
• Change Password(admin can change own password)
• logout
III. SYSTEM DESIGN
ER Diagram

Data Flow Diagram

Class Diagram
IV. SYSTEM TESTING

Systems should not be tested as a single, monolithic unit. The testing process should therefore proceed in the stages where testing is carried out incrementally in conjunction with system implementation. Errors in program components may come to light at a later stage of the testing process. The process is therefore an iterative one with information being fed back from later stage to earlier parts of the process. Following are the main testing levels:

A unit involves the smallest testable part of software. It usually has one or a few inputs and usually a single output.

Types of System Testing

White box testing strategy: This is a testing strategy developers takes into account the internal mechanism of a system, application or component to check if the source code is working as expected or not. The white box testing strategy incorporate coverage of the code written, branches, paths, statements and internal logic of the code, etc.

Black box testing strategy: Is a testing strategy in which the functionality of the software is tested without any reference to the internal design, code, or algorithm used in the program. Black box testing strategy ignores the internal mechanism of a system or component and focuses solely on the outputs generated in response to selected inputs and execution conditions.

V. SCREEN SHOTS

Home Page

Register
VI. FUTURE SCOPE

Today, the market place is flooded with several car rental options for shoppers to choose from. A variety of innovative products and services are being offered spoiling customers for choice. Online car rental system is no more privilege enjoyed by your friends and family. Today, it is a reality in India. In the last couple of years, the growth of car rental system industry in India has been phenomenal as more shoppers have started discovering the benefits of using this platform. There is enough space for online business in the future if they understand the Indian shoppers psyche and cater to their needs.

VII. CONCLUSION

Car rental business has emerged with a new goodies compared to the past experience where every activity concerning car rental business is limited to a physical location only. Even through the physical location has not been totally eradicated; the nature of functions and how these functions are achieved has been reshaped by the power of internet. Nowadays, customers can reserved cars online, rent car online, and have the car brought to their door step once the customer is a registered member or go to the office to pick the car.

The web based car rental system has offered an advantage to both customers as well as car rental company to efficiently manage the business and satisfies customer’s need at the click of a button.

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Sk Dileep received his Graduate Degree in B.Sc. Computer Science from Sri Venkateswara University, Tirupathi in the year of 2012-2015. Pursuing Master of Computer Applications from Sri Kalahastiswara Institute of Information and Management Sciences, Sri Kalahasti, Affiliated to Sri Venkateswara University, Tirupathi in the year 2015-2018.

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