

Online Vehicle Rental System

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Abstract – The car rental system is being developed for customers so that they can book their vehicles from any part of the world. This application takes information from the customers through filling their details. A customer being registered in the website has the facility to book a vehicle which he requires. The proposed system is completely integrated online system. It automates manual procedure in an effective and efficient way. This automated system facilities customer and provides to fill up the details according to their requirements. It includes type of vehicle they are trying to hire and location. This system increases customer retention and simplify vehicle and staff Management in an efficient way. This software, Super car Rental System has a very user friendly interface. Thus the users will feel very easy to work on it. By using this system admin can manage their rental,Bookings, customer issues and vehicle issues etc.... The Super car information can be added to the system. or existing super car information can be edited or deleted too by the Administrator. The transaction reports of the car rental system can be retrieved by the admin,when its required. Thus, there is no delay in the availability of any car information, whenever needed the super car information can be Captured very quickly and easily.

Keywords – car rental logistics, car rental system,minimum cost network flow model,vehicles,driver.

I. INTRODUCTION

This paper covers the four important component of MEAN stack i.e. MongoDB, Express.js, Angular.js & Node.js and their benefits as a full stack in web development. That helps to build fast, robust and maintainable web application. JavaScript is used as scripting language for client-side programming as well as server side programming that runs in any almost every browser from client to server to database. It is a full stack JavaScript which is 100% open source as well as large community support. There are some other languages also

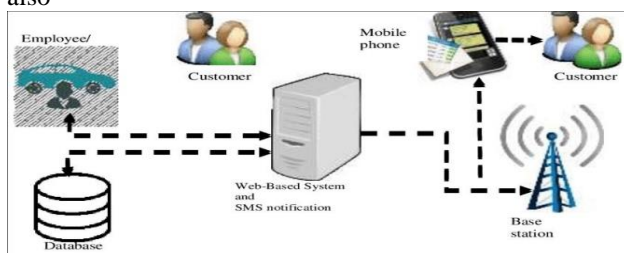


Fig.1 : process view of vehicle rental system

II. METHODOLOGY

The web-based car rental system integrated with SMS technology has a very user-friendly interface. By using this system, employees can manage bookings, payment, vehicle issues and SMS notification to the customers within a few clicks only. The new data can be added or an existed data can be edited or deleted too by

administrators. Thus, there is no delay in the availability of any information, whether needed, can be captured very quickly and easily. For security purposes, all customers need to create a new account before logging in or he/she can log into the system with his/her created account before they can make a reservation for a car. Then, the customer will be notified the availability of the car reserved through SMS. This system becomes very helpful for employees, administrator and customers

III. MODULES OF PROJECT

1. Login Module:

The login module authenticates both the user and the admin. Once the authentication is done, the user and admin can perform their individual activities.

• Admin Login:

Admin can add a car, manage booking car and rent and also view feedback and enquiry. The Admin can add the car so that the user can see the available cars and book the car. The Admin can manage the rent so that the user can see the rent and book the car. The admin easily view the feedbacks and solve the query. The administration area allows to set up the system and control all the information related to car rentals. Common sections of the admin system are: "Add New Element", search box on each page to provide easy access to data, and a data editing page (on each section). In most cases, these sections and functions are intuitive and will not be mentioned repeatedly for each section so that we can concentrate on most important feature. After entering the

system you will have access to a group of menus to control different areas of information.

2. User Login:

User can view information of available car, booking car, easily get the car on rent and also give feedback and can enquiry. 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 the user can view Available cars and user can book for that car. The Customer can easily get the car whenever they need to on the rent with use of this system. The customer will give the feedback to the admin. The inquiry can easily done by user. 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

IV. SYSTEM FLOWCHART

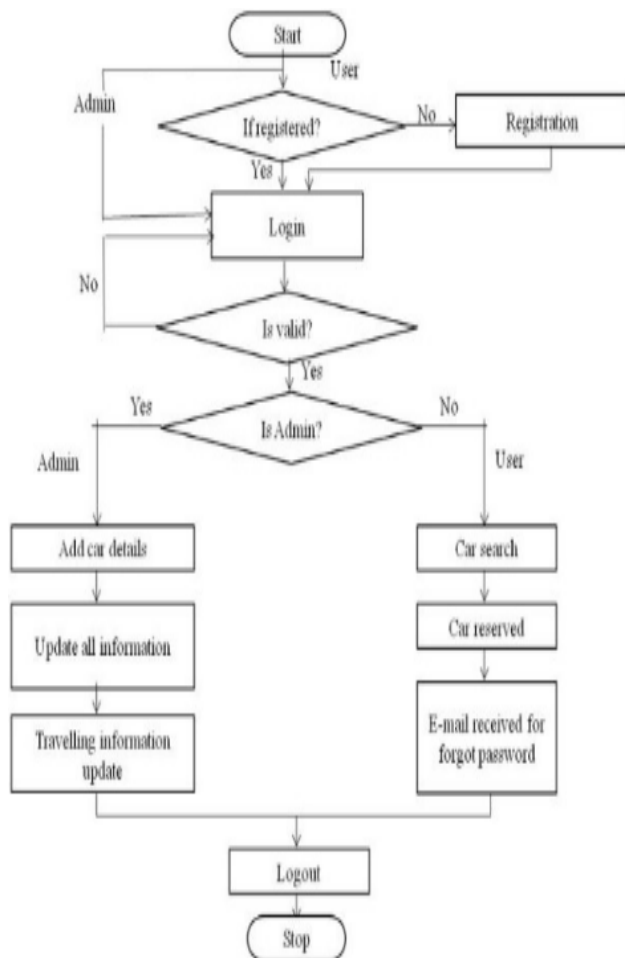


Fig. 2 : flowchart of online vehicle rental system

V. DEVELOPMENT TOOL

System we will be Developed using

Front End: Brackets (HTML5, CSS3 ,Bootstrap, Php Coding) Back End: mysql Server 2005 jquery.

VI. ADVANTAGE

1. Freedom of movement. While enjoying your holidays, you don't want to worry about taxi prices, schedules or bus stops.
2. Money saving.
3. Quality of life.
4. Comfort.
5. Price.
6. Affordability.
7. Low cost travelling.

VII. CONCLUSION

Vehicle Rental System business has emerged with a new goodies compared to the past experienced where every activity concerning vehicle rental business is limited to a physical location only. Even though 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 reserve 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 vehicle rental system has offered an advantage to both customers as well as Vehicle Rental Company to efficiently and effectively manage the business and satisfies customers need at the click of a button.

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