



Vehicle Rental System

Abstract— The mainly aim of our project or module is to design and create such a type of software or application which will help the rental company. In this the customer will rent a vehicle with the help of admin. The customer will pay money for the given duration when he/she issued the vehicle. This will help to progress the vehicle company growth as well as the staff management. It has a user-friendly interface so can be used by anyone and in the easy way it can be used. Admin will have the opportunity to manage all vehicles for example Booking, customer issues, etc. The vehicle information will be stored in the database which can be easily deleted or updated by the administrator. If in case we need to know the details of any vehicles so it will be available into the daily reports which will be shared by admin. So, if we want to know the transaction for any vehicle at any time so it can be very easy to gather the information related to any of the vehicle it may be car, Two-wheeler, etc.

Keywords— Car Rental, Bike Rental, Vehicle Rental

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I. INTRODUCTION

People now – a- days do not have much money to buy vehicle but when there is a time a person need his own vehicle to reach to his/her destination because of such reason our website is used to help the customer need and reach to the destination. This website can be used by students, Workers and any person who requires it. We are implementing this project for the customer need and also in IT field it will be more beneficiary for the upcoming student to make it more advance and also the growth of business. Even in our day-to-day life if you see a person cannot stay without internet facility. In many of companies and business the internet is the medium of communication between different company. This project is mainly focus on the two important things i.e., (1) The business growth in the world (2) Customer or people need and, in less time, to reach their destination. Customer using this website simply

login and get available vehicles which he required and by providing his/her documents details to online rental vehicle system and then can use anywhere the vehicle. This is how actually the system and functionality will be for online rental vehicle. This website is user friendly so can be used from mobile and wherever the person is standing over the place.

A. Overview

Our app is mainly focus on the need of people for experiencing they have their own two-wheeler or four-wheeler. It is also requiring when you don't get any taxi, auto, bus, etc. This will work in city and village also, So you don't have to worry about anything. You need to be a registered Member of our website and should have place an order.

This is a chance to see how well our business is working in different areas and locality. Our first priority is our customer and we try to make them happy by giving our services and customers can book vehicles in few steps which is hassle free. Customers can choose number of vehicles according to their choices and ranges from the available vehicles they can choose different colors, mileage, etc. of vehicles.

Research Article
First Online on – 19 June 2021

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Cite this article – Akshay Pathak, ShaktiKumar Gurum, Sonal Uikey, Shamlee Upadhye, “Vehicle Rental System”, *International Journal of Computational and Electronic Aspects in Engineering*, RAME Publishers, vol. 2, issue 2, pp. 28-32, 2021.
<https://doi.org/10.26706/ijceae.2.2.20210410>

B. How Vehicle Rental Services Work

- For rent vehicle user has to visit the website and should register on it for that it requires few information like name, email address, mobile no, by setting password user can make registration. After that they could login throughout his/her id and password and by successfully login they visit to home page.
- User will see the vehicle according to his need but if he like it and want to book the vehicle he can for that user has to fill details like booking date, Time, Vehicle type and pay the amount as from on the vehicle is booked.
- User's complete information about the booking is given in that receipt by system similarly the receipt is sent to user by sms on his mobilenumber.
- User can go to the nearby location of the office to receive that vehicle or company executive person can go to the user's location and deliver the vehicle to the user.
- User has to get document checked like id proof for identity and security purpose from executive person.

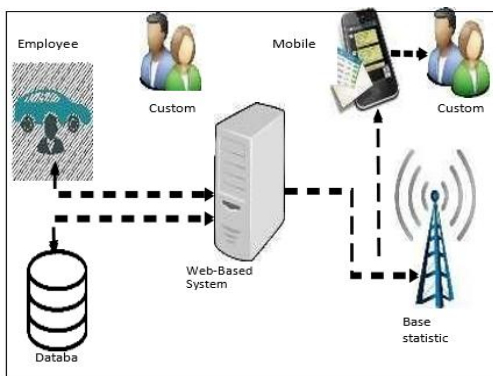


Figure 1: Overview of APP



Figure 2: Document Verification

C. Benefits of Online Car Rental Services

This is online Vehicle rental system and it is very easy to use for the users.

- This online vehicle rental system helps in corporate by providing rental vehicle by companies for their employees.
- It saves a lot of hard work which we have to use when we don't have any vehicle, and it is also available in various ranges from low to high according to users choice.
- Eco-friendly: Lots of paper work we don't have to use which make this eco friendly to use by the users. The software available at any time at anywhere and open 24/7. This increases the chances of the services provided by the management is in efficient manner to the customers.

II. FUNCTIONAL REQUIREMENTS

Functional Requirements which are used to describe the internal working of applications. How application perform which sub system do which task such type of question are come under functional requirement. It is also an basic building block while developing an application first we need to specify which type application we want to make and according to them we can think about their functional requirement and later implement the idea. In this area of section we describe how the internal system of our application is working the internal working of system make large application easy to use and hassle free otherwise the when there is a situation where internal system of application is not working properly then the application perform in unwanted way so to avoid that kind of situation we need to have a functional requirement of system. Internal working of large application make them easily to use by anyone in this system vehicles which are not present currently or vehicles which are available currently are automaticly updated admin don't need to update them manually. When customer register he/she needs to verify by using email link which is send by us and then there registration data is save din our system automaticly for future use and admin don't need to verify customer manually because of this features. Functional requirement is used in when we create a basic model for the program

before implementing it with the code this is used to describe overall operations performed by the application.



Figure 3. People waiting for Bus

III. NON-FUNCTIONAL REQUIREMENTS

This is used to describe to describe the ways in which functional requirement is achieve. The members which is authorize according to their area of services can see their sections of authorization in this section and in our website user cannot directly place order he/she have to register then login and after that he/she can place order he/she needs to have an email id because we send the email verification link on the email id provided by the user and then he/she needs to verify by clicking on that link and then he/she can login to their account by verifying the email id he/she provided which is used by them at the time of registration and also the password without them user cannot login to their respective account after login they can rent whichever vehicle they want with different range of vehicle with different features. Staffs which are available and which are not available are also describe in this section and the different authorities of different staff members are available in this section and also the position and promotions of staff member are also available in this section of area.

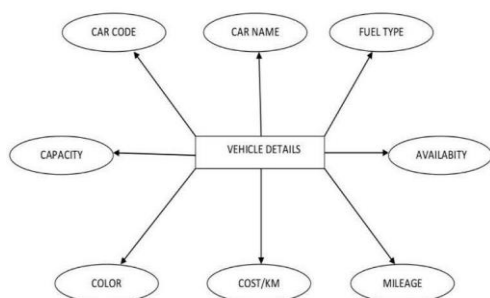


Figure 4. Data Flow Diagram (DFD)

IV. VEHICLE DETAILS

A. Availability

We don't Show the Vehicles which is not available currently in our website. Whenever our vehicles are getting back to us, we update the website list of available vehicles.

B. Cost/Km

Details of vehicles are available on vehicles section like how much mileage vehicle give under 1 liter petrol or diesel

C. Color

Various types of colors are available for vehicles you can choose whatever color you like for vehicle.

D. Capacity

Various range of vehicles are available according to your choice of capacity you can choose you want to get vehicle for family trip or friend's trip.

E. Vehicle Code

Vehicle codes are present on every vehicle to make renting process efficient and hassle-free trip.

F. Vehicle Name

Vehicle's name is available to see available vehicles in our website and every name is unique for user. They don't have to confuse.

G. Fuel Type

Different Vehicles with different fuel types are available according to your choice of fuel both diesel and petrol vehicles are available.

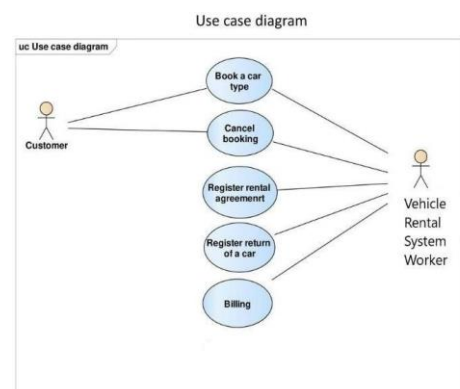


Figure 5. Use Case Diagram

A. Register

Customer have to register first in our website using Gmail and after that he/she have to login his/her account then after they can book vehicles or place orders.

B. Book a Vehicle Type

Customer have to select which type of vehicle they want from different type of vehicle they can select color, capacity and after their selection is complete, they can place order.

C. Cancel Booking

Customer can cancel booking at any time they choose but booking is not cancelled by us this feature is only available for customer so they can rent vehicle according to their comfort.

D. Register rental agreement

Our worker has to register the rental agreement of the according to order and after the vehicle is return he/she have to register return of vehicle and billing is also provided by our worker.

V. MODULES

A. Vehicle booking

By clicking vehicle booking tab user will go to registration page. Where the vehicles and their related information were given. To book vehicle, User has to select vehicle, Date and time and related information after selecting option user has to make payment.

When the vehicle is booked successfully a receipt will appear on the screen and there will be complete information related to booking and booking sms will be send to user.

B. Home Page

Different types of tab are given to the home page of the rental system like service, contact, login, registration. If the user wan to book the vehicle and wants his information can select service tab and also book vehicle. If there is an issue in service and wants help, then by click on contact tab they can take help from customer care.

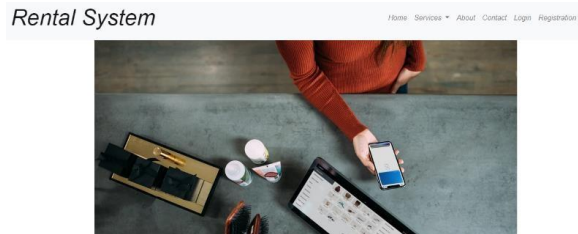


Figure 6. Home Page

C. Sign Up Page

For booking vehicle user must be register on website so this tab is use for registration of user for registration user will have to provide the necessary information like Name, Email Address, Mobile Number, City, such type of details is needed.

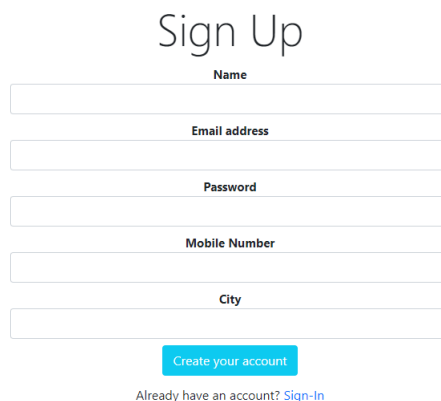


Figure 7. Sign Up Page

D. Sign In Page

Here user has to enter its email-id and password, which he had entered while registering and if he/she entered wrong email-id or password then the he/she cannot access their respective account. They have an opportunity to choose the wide ranges of vehicles with various prices and colors also they can see the documents they require while placing order when our company employee go to them, they need to provide the documents.

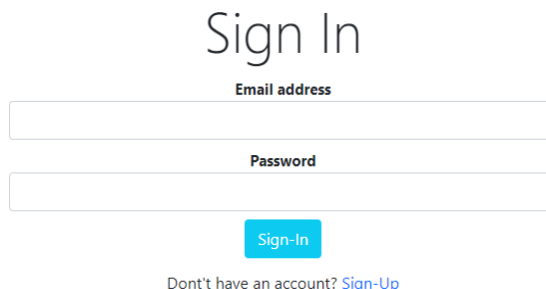


Figure 8. Sign In Page

VI. CONCLUSION

This system or the website has been implemented so as used by any person from anywhere with help of mobile phone. By using mobile phone, he/she can book a vehicle whichever require and get it at his/her place in a very short time and can be used wherever he/she wants to reach. This is very helpful for the administration to operate the website and also to collect any sort of information he required related to any vehicle. The main thing is that the website must be user friendly and people can use it very easily and can be very effective.

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