

CAR RENTAL SYSTEMS

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ABSTRACT: *In the existing system, the car of the owners remains idle for most of the times due to which its affects the financial of the users/owners. A car rental or a car hire agency is a company that rents car for short periods of time, generally ranging from a few hours to a week. It also provides a platform for the users to book the cars to travel within or outside the city via internet .It primarily serves people who require a temporary while and for the owners whose cars remains idle for most of the times.*

KEYWORDS:

Admin, owner, users, availability, allocation, cost.

I. INTRODUCTION

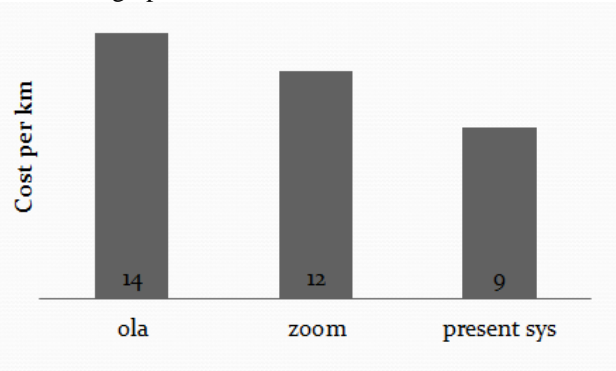
A car rental or a car hire agency is a company that rents car for short periods of times, generally ranging from a few hours to a week. It also provides a platform for the users to book the cars to travel within or outside the city via internet. It primarily serve people who require a temporary vehicle and for he owners whose cars remains idle for most of the times. The main objectives of car rental is to enhance its features and to high quailty customer service. This can be acheived by providing the route configurations and the offers as per conditions applied. To make the car rental system an automatic first choice carrier for travelling public and setting standards for high quality service. To provide rental solutions to customer/owner needs by building a strong and loyal relationship through quality service.

II. RELATED WORK

The earliest known example of cars being offered for rent dates to 1904.[1] The German company Sixt was established in 1912 with three cars for rent.[2] Joe Saunders of Omaha, Nebraska first started with only one borrowed Model T Ford in 1916, but by 1917, his Ford Livery Company was renting out 18 Model Ts at 10 cents per mile. The company name became Saunders Drive-It-Yourself System and then Saunders System. By 1926, Saunders had expanded to 56 cities.[3] Saunders' company was bought by Avis in 1955.[3]An early competitor to Saunders was Walter L. Jacobs, whose Chicago-based Rent-a-Car opened in 1918 with twelve Ford Model T.[4] The company was bought in 1923 by John Hertz.In Britain, car rental started with Godfrey Davis, established in 1920, and bought by Europcar in 1981.The sector expanded rapidly in the US; in 1926, the American Driveurself Association assembled over 1200 delegates in Chicago.[1]The growth in travel after World War II led to the establishment of several well known international companies, including National Car Rental (1947), Europcar (1949), Enterprise Rent-A-Car (1957), Thrifty Rent A Car (1958), and Budget Rent a Car (1958).

III. LITERATURE SURVEY

Acc, to the survey done we can see that the results are as shown in the graph below



EXISTING SYSTEM

- No individual owner car Registration.
- Owners car remain idle for most of the times.
- Hidden profit is very high.
- Affects owners/users financial status.
- No route path information given to customers.
- User inconvenience.

PROPOSED SYSTEM

- Individual owner car registration is available.
- No ideal cars.
- Reasonable prices.
- Owner/users financially benefited.
- Route path information are given to customers.
- Owners/Users are satisfied and convinient.

DESIGN:

SEQUENCE DIAGRAM:

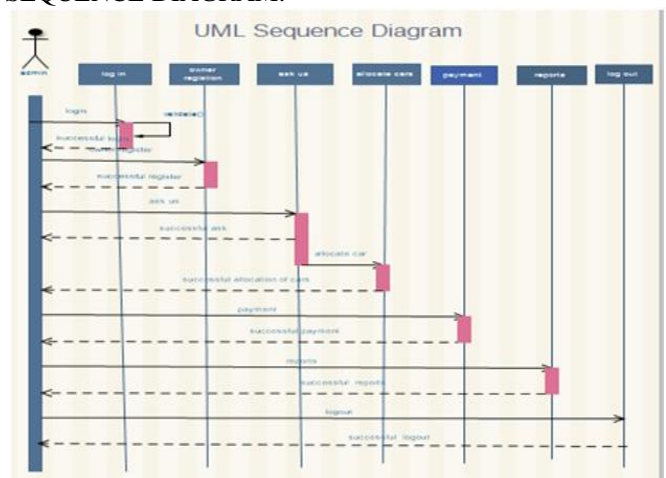


Fig: sequence diagram for admin.

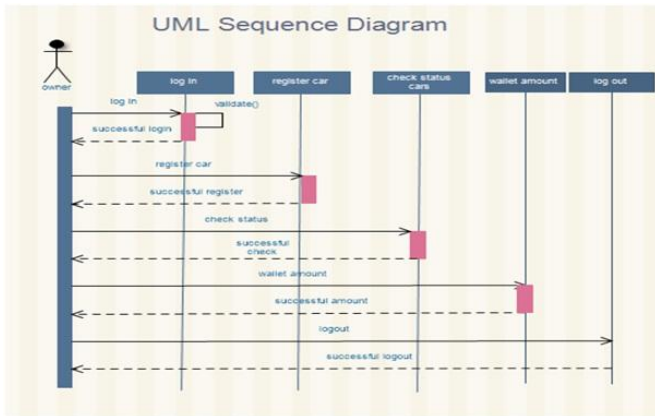


Fig: sequence diagram for owners.



Fig: usecase diagram for owners.

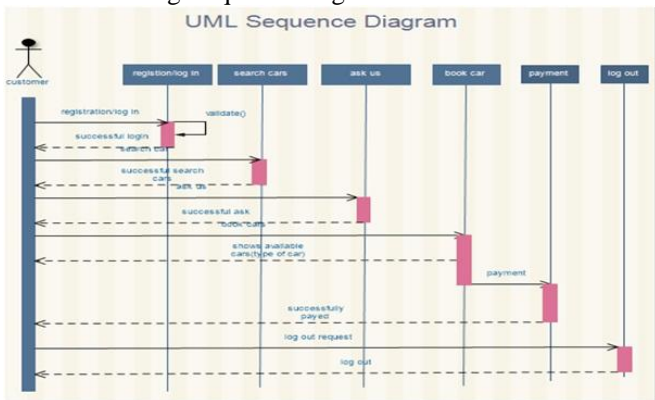


Fig: sequence diagram for customers.

Usecase diagram:



Fig: usecase for admin.



Fig: usecase diagram for customers.

IV. FRAME WORK

ADMIN: One who maintains the application, will register owners and their cars, even drivers and assign a particular car to each driver, check the transactions, and based on feedback of customer he can make changes in application.

OWNER: he is the one who register his cars to this web site and keep on checking car status and amount transaction details.

USER: user is noting but customer, he can register to this site to search, book the car, and payment is done through online.

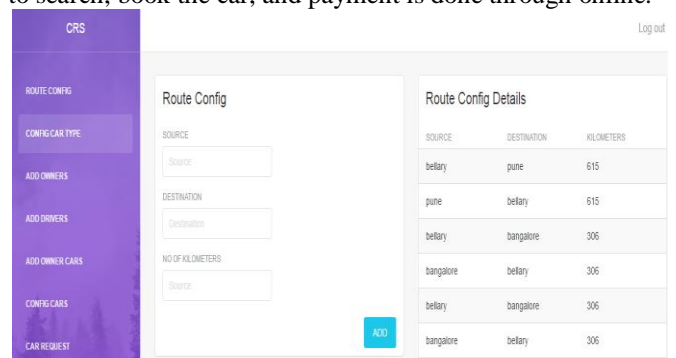


Fig: working of admin

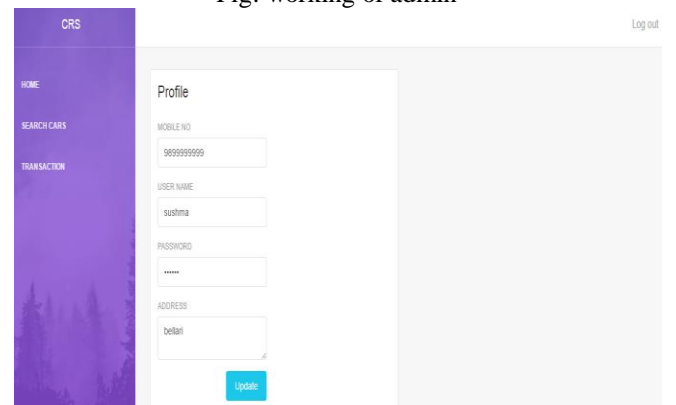


Fig: working of car owner

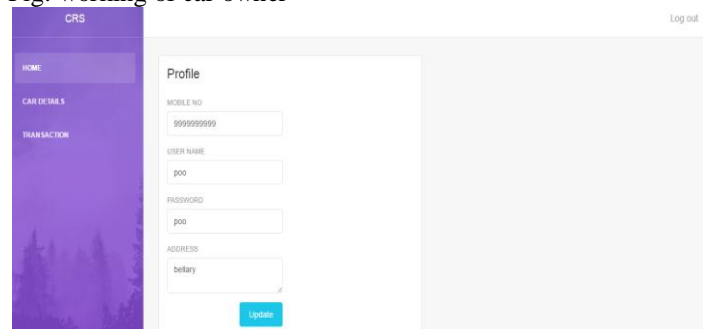


Fig: customer page

V. WORKING OF THE CAR SYSTEM

Step1:admin sign in

1a:admin will configure the route details .

1b:admin will add the owners and their car details.

1c:admin even adds the drivers with their validations.

1d:each car is assigned to a particular driver.

Step2: 2a:user will either sign up with a new account or login into an existing account.

2b:checks for the availability of cars according to his needs.

Availability=no of cars –hired cars.

2c:one selected he sends the request.

Step3:

3a:the request is received by the admin.

3b:admin allocates the cars to the users.

Allocation=no of availability of cars as per users request.

Step4:

4a:car is delivered to user.

4b: user pays the bill.

Cost=no of km * price per km for specific cars.

Step5: From the payment 80% of amount will be transferred to admin account and remaining 20% amount is transferred to car owner account.

VI. CONCLUSION AND FURTHER WORK

The main intention of developing this application is to provide service to the customer who is new to the city which is helped to reach their destination. This system is very safe and security, service is provided with high quality and less amount when compared to other service providers.

BIOGRAPHY

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