

Vehicle Rental System

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Abstract

Our vehicle rental system aims to create a managed system of data for vehicles. Our system mainly emphasizes on renting out vehicles to the customers. The vehicles which are not in use for a period of time or are being rarely used by the owners can such people can grab this chance and earn by registering their vehicles on our application with complete security. The customers will be at ease while using the software because of its user friendly interface. The user can register; select the vehicles as per their choice through the categories and can book the vehicles for the time being required by filling up the mandatory information. The admin can be rest assured regarding the security of their vehicles. The people who cannot afford vehicles and even those who need vehicles for a time being can definitely use this software for renting out vehicles for a specified time. Overall this vehicle rental system will be of great use to both customers as well as owners.

Keywords: *Registration, Rental, Categories, Friendly interface, Security*

INTRODUCTION

The vehicle rental system is an application which rents out vehicles to the customers. Nowadays due to the fixed and peculiar schedules of students it's not always possible for them to catch up with the local buses or vehicles. Instead this problem can

be resolved using our 'Vehicle Rental Application'.

There are many cases in which the vehicles are rarely used by the owners. So in such cases instead of just paying for the maintenance of the vehicles which are

being rarely used, such people can make money out of such situation by registering their vehicles on the application. Through this win-win situation the owner of the vehicles will be in profit as well the people who just can't afford for the vehicles can reach out to their desired places.

This is a mobile application so it is a way easier to use than that of the web applications.

Now a day a lot of technologies are being developed throughout the world. And in this technical world the physical work is transferred into a computerized form. We humans also use the computerized system to complete its requirements or work. The various technologies and that technology based applications are used to complete the work in time with low cost and higher efficiency. The user can use the vehicles as per his/her choice for various purposes like tour, holidays, business purpose, etc. By using this app the customers can travel or visit their destined place with the rented vehicle easily which they want.

LITERATURE REVIEW

Joe Saunders was the first man who started a vehicle rental company. Vehicle rental system is an application which provides vehicles on rent. While collecting data for

vehicle rental applications we studied some research papers and some existing systems. The car rental system is available in metropolitan cities like Mumbai, Pune, Banglore. Example: - Allied car rental system. There is no such on demand Vehicle Rental App that has been enforced close to our space. The research paper "Enhancement of Mobile-Based Application for Vehicle Rental" explains EZGO [1]. EZGO is a website that allows users to search for different types of vehicles [1].which is a vehicle rental system in Malaysia that can be used digitally through smart phones.

On Hire: Car Rental System is an automated system that includes the type of vehicle they are trying to hire [2]. This system develops a website for the people who can book their vehicles along with requirements from any part of the state [2]. There are some available car rental systems which work like a Vehicle Rental system [3]. These apps provide car information that can be used by customers to rent cars. Though there are offline car rental agencies but are not easily reachable, the existing car rental systems are available for limited areas. But there are no car rental or vehicle rental online systems available in our nearest area. To overcome this problem we created a

vehicle rental system which will provide all types of vehicle.

METHODOLOGY

A vehicle rental is an android application which provides vehicles for temporary use. This application rents out the vehicles for specified rent by the owner. Managing the vehicle rental system manually wastes our time and money more. In this vehicle rental system we can procure vehicles like two wheelers, three wheelers and four wheelers on rent for allotted time with respect to the selected area. Here owners of the vehicle will put their vehicles on lease and the user can choose the vehicles of their choice by booking the vehicle with payment. This rental system has three main modules named as Admin, Owner of the vehicle and User.

Admin Module

To handle this system by admin side there is a web application. Admin can,

1. Login: Here Admin can login with their valid username and password.
2. Vehicle Registration: Admin will collect the details of the vehicle and register that vehicle on this application. Also the admin can update and delete the vehicle from the app.

3. View reports: Admin can view reports of brand, map, vehicle, user, feedback.
4. Manage and Monitor the app: Admin will manage this application. Admin will manage the data of the vehicle and user also. Admin is able to change the status of the vehicle.

Owner

1. Register and Login: Owner of the vehicle can register on the application. Owners can login with their registered username and password.
2. Approve booking status: Owner of the vehicle should approve the booking status to make the vehicle available to use.

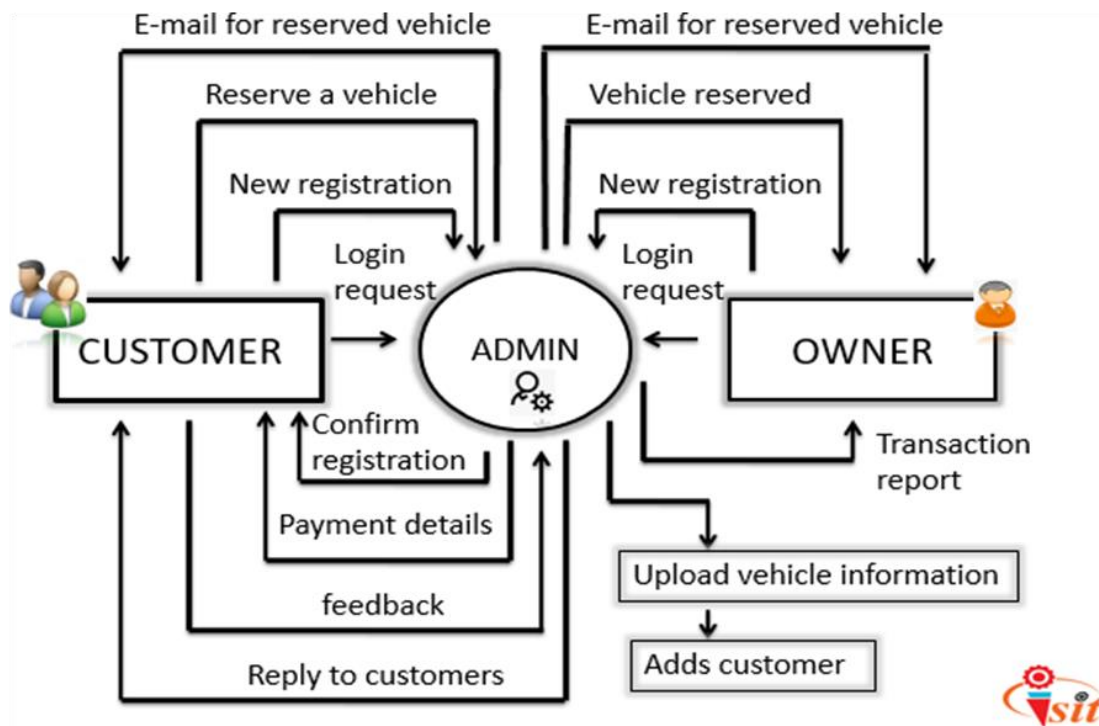
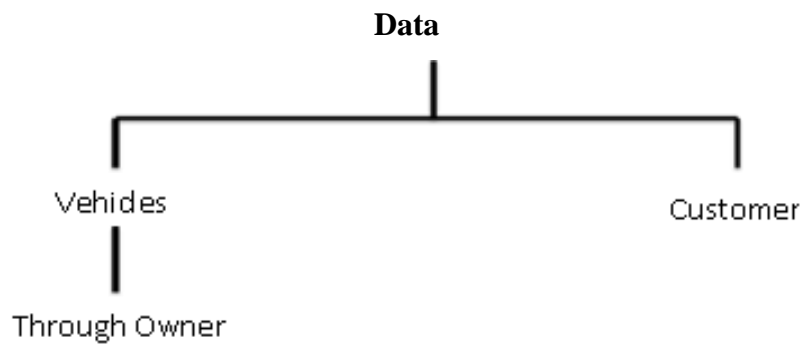
User

1. Register and Login: Users should register and login to book any vehicle in android application.
2. Home Page interaction: Users can interact with the homepage of an android app. Here users can search for vehicles.
3. Book Vehicles: Users can book the vehicles in the android app.

In this system admin will collect data of the vehicles like vehicle number, speed of Vehicle, gears, etc. through the owner of the vehicle. Verifies the documents of the vehicle first and then registers that vehicle on application. Admin will decide the

status of the vehicle i.e. Active or Inactive. The vehicles which have active status are available to use for users. But users must have their own driving license Tele-communication.




Methods of data collection



RESULT

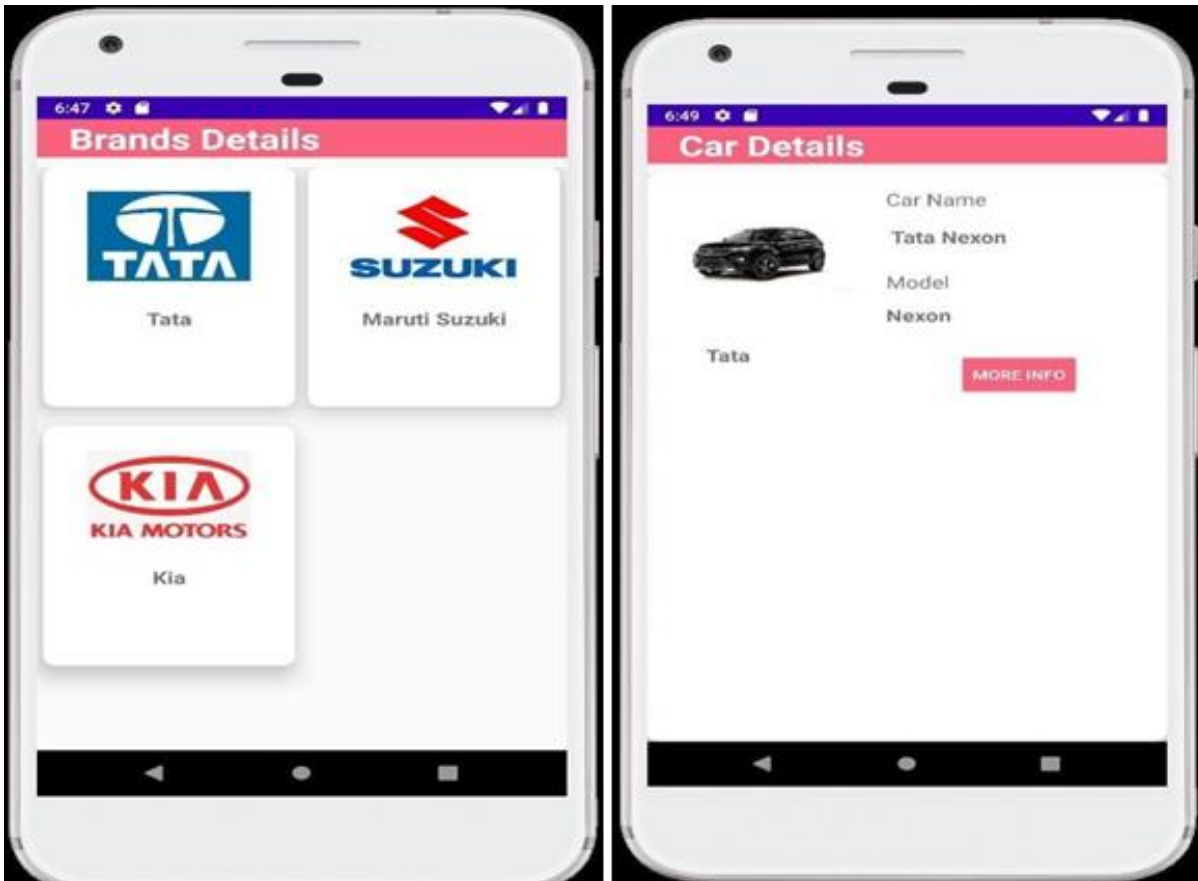
Web Application

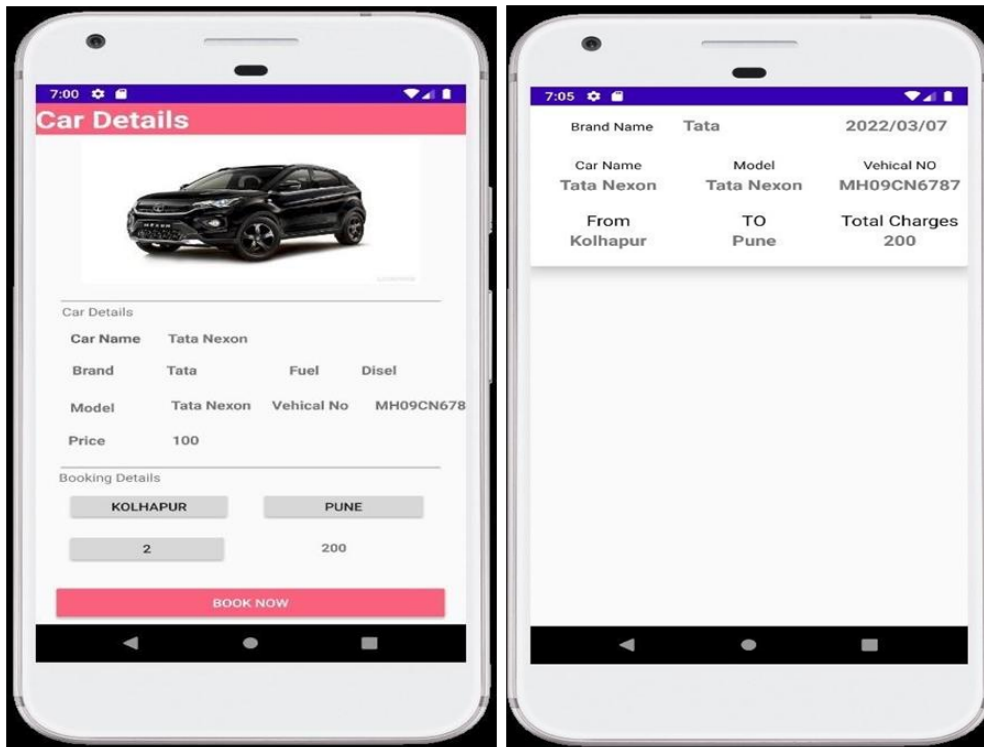
| # | NAME | CONTACT | CAR NAME | BRAND | MODEL | NO | TO | FROM | TOTAL | ACTION |
|---|-------------|------------|------------|-------|------------|------------|------|----------|-------|--------|
| 1 | Amit Patil | 9168849418 | Tata car | Tata | Tata car | mh09cn0542 | Pune | Kothapur | 40 | X |
| 2 | Sagar Patil | 9168849418 | Tata Nexon | Tata | Tata Nexon | MH09CN6787 | Pune | Kothapur | 200 | X |

| # | BRAND NAME | IMAGE | DESCRIPTION | ACTION |
|---|---------------|---|-------------|--------|
| 1 | Tata |  | Tata Cars | X |
| 2 | Maruti Suzuki |  | Suzuki cars | X |
| 3 | Kia |  | Kia cars | X |

| # | NAME | MODEL | BRAND | VEHICLE NO | SEAT | PRICE | FUEL | STATUS | CATEGORY | IMAGE | TRASH |
|---|------------------|--------|------------------|------------|------|-------|-------|--------|-----------------|-------|-------|
| 1 | Tata Nexon | Nexon | Tata | MH09CN6787 | 4 | 100 | Disel | Active | Four Wheeler | | |
| 2 | Vitara Brezza | Brezza | Maruti Suzuki | MH09CN7876 | 4 | 150 | Disel | Active | Four Wheeler | | |
| 3 | Kia settos | Settos | Kia | MH09VF0987 | 4 | 100 | Disel | Active | Four Wheeler | | |

Mobile Application





We developed an application which will be used to rent out vehicles in our nearby areas. Customers can enjoy the benefits of using their desired vehicles for a desired amount of time. This system will work best for the nearer area. This works with the internet. Without internet this will not work properly.

OBJECTIVES

The objective of this project is to develop a system that allows the vehicle owner to advertise their vehicles and allow users to search any type of vehicle in this system. To achieve the above mentioned Aim, below are the objectives of this project.

1. To develop a system to manage the vehicle rental business

2. To apply technique for user's criteria preference
3. To test system functionality of the proposed technique.

Future Scope

1. This vehicle rental system can be used in different sectors for business and other purposes in world.
2. We can expand the system in future in large area

Advantages

1. Fully functional and flexible.
2. Saves time, wealth and labor.
3. Acts as an office that is open 24/7.
4. Provides a wide selection of vehicles.

Applications

1. Owner can rent out their vehicles nearby area by registering that vehicle on app.
2. User can use the vehicle on rent in nearby area by using this application.

Abhishek Patel, Vikrant Patil, Dilip Nitture.

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