Get Wheels

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Abstract

The "Get Wheels" programme is straightforward and simple to use. Utilizing the Get Wheels App, users will be able to make reservations for their cars from anywhere in the world. By providing their information, users can create an account on this programme. A user can reserve a vehicle after setting up an account on the app. Get Wheels has details about the kind of car they want to rent. The suggested solution is a fully integrated online system. It streamlines and streamlines manual processes.

This Get wheels is being taken into consideration to lessen and completely eliminate consumer loss to competitors and prevent the business from going out of business. This project aims to automate car rentals and reservations so that clients don't have to go in person or make a phone call to make a reservation. The database for all the company's vehicles will be kept up to date by Get Wheels.

Admins and Users are the two types of users who typically utilise Get Wheel. The "Get Wheels" application was created using Android Studio, which also used Java, ASP. Net, C# for the front end, and SQL Server for the back end.

Keywords: Global Positioning System (GPS), Android, Data Base, Mobile Application, Rental Online.

1. Introduction

The project's purpose is to improve people's utilisation of transportation. In terms of convenience, automobiles have recently eclipsed all other modes of transportation. Using a car to meet one's needs can be made simpler, less complicated, and more pleasant with the help of the Get Wheels system. A vehicle can be reserved for the duration of a trip, the number of passengers, and the type of trip. The rental system contains procedures for developing a database, comprehending commercial ideas, and, most significantly, making the system adaptable to diverse travel needs.

This system containing two modules, namely admin and users. Admin is the super-user of this application and have the web part for the usage; he can add or delete the vehicle categories. He can have the option to add, edit and delete the vehicles information and can upload images and videos for vehicles. He can have the facility to view and delete the registered users from the app. He can also view and process the user bookings for the vehicles from the users.

Users are another module of this application, they can register to the app by using their necessary details, and they are login and view the list of vehicles along with the images and videos of the vehicles. Users can give feedback about the vehicles and can book the vehicles in the android app.

Finally, they can view the booked list and the status of bookings. They can update their profile and password, if it necessary. The Get Wheels system has an extensive internet application that allows users to book a vehicle by searching for it online. By effectively supplying price-conscious users for all of their automobiles, we will be a growth-oriented vehicle rental system. We are concentrating on renting out vehicles and doing online reservations as the functions covered by this project. The system will work properly for all users. This project's goal is to create an online vehicle rental system for Android and the web that offers users a paid service to rent any of the available automobiles. It involves a very simple registration procedure to be done by users. The major This app's goal is to produce a user friendly online platform where people who are in search of vehicles to travel with family, friends and fulfill their vacation transport needs.

The main of this application are as follows:-

1. To help travellers who are in need of transport for a small duration of time and also at an affordable rate.
2. After customer registration they can get vehicle information without going outside to contact rental office which is much efficient and less time consuming.

2. Literature Survey

A literature review is the written way of summarizing, synthesizing, and/or criticizing the literature determined as the end result of a literature search. It can also be used as historical background or context for a prevailing search project.

There are number of motives to assessment the literature:

- Recognize the trends in your field of study.
- Gain knowledge of the lookup techniques and statistical sources.
- Confirm uniqueness of a lookup project.
- Review techniques Determine errors to prevent.
- Outline discipline's controversies, strengths, and flaws.
- Determine subject-matter experts.

3. Problem Statement

The manual u-drive system only offers services during working hours. Customers thus have a limited window of time in which to complete any transactions or make vehicle reservations. The limitation of the business operating hour has been solved by the availability of web-based automobile rental services nowadays. A customer must physically present themselves or at the very least choose the support desk of a company to book a car for rental, which is a laborious manual approach. Data storage is done manually because records are entered into books using pen and paper. Calculations and information manipulation are often done manually, which compromises accuracy. The removal and updating of information is in some ways, problematic and, if possible, results in chaos.

4. Proposed System

The project's goal was to present a working prototype of a safe mobile automobile rental system that would let customers reserve the car they wanted. The conventional method of renting vehicles has taken place of the envisaged mobile vehicle rental system. The mobile app will have more features like adding, modifying, and removing information. The mobile app will get more capabilities like login, checking vehicle availability, and so forth. The app also allowed users to view the available rental vehicles. Users could instead explore the vehicle rental list via Mobile, Get Wheels System, or On the other hand, the app gave admin complete power over the app, allowing him to add, amend, and remove any vehicle. Customers can install the application on their mobile phones and create an account with a company that provides vehicle rental services. They have a central database where they can receive car rental applications and can book vehicles upon customer request.

5. Functional Requirements

Admin

1. Admin can add or delete vehicle categories.
2. Admin can add or edit or delete information about vehicles.
3. Admin can upload images and videos for vehicles.
4. Admin view and delete the registered users,
5. Admin view and process the user bookings for the vehicles.

Users

1. Users can register to the application.
2. Users can view the list of vehicles.
3. Users can view the images and videos of vehicles.
4. Users can give feedback about the vehicles.
5. Users can book vehicles.
6. Users can view the booked list and the status of bookings.
7. Users can update the profile.
8. Users can update the password.

6. Non-Functional Requirements

Correctness: Since this assignment is utilized to furnish the applicable and satisfactory data about the records of the particular challenge which had been carried out through the capacity of students. The administrator can have larger benefits at the database; the framework ought to acontinuously furnish appropriate response and the archives in all of the databases favor to constantly be generally refreshed with the most current facts.

Reliability: The framework as to provide first-class data beneath any circumstance, with inside the event of any blunder with inside the information or interest, the framework ought to replicate the tremendous manageable message or furnish appropriate supporting facts.

Maintainability: The task can moreover be chosen to be used for an extended period of time, but it must contain some aspect that is both difficult to maintain and adaptable to future modifications. The structure if the framework ought to be module essentially primarily based definitely absolutely in reality and altering the shape of the absolutely module ought now no longer have an effect on the great hobby of the contrary module.

Portability: It determines the simplicity with which the product may additionally moreover in addition be delivered on every and each and every crucial stage, and the tiers on which it is miles relied upon to run.

Security: It tells about the protection of the computing device this is how can shield the computer from out reasserts attacks

7. Methodology

Login Module

Both the user and the administrator are authenticated using the login module. After authentication, the user and administrator can go about their business.

    A. Admin Module:

      The admin can add a car, manage reservations for any vehicle and rental, and check reviews and inquiries. The admin can add the car so that the user can see the available cars and reserve one. The Admin can control the rental so that the user can see it and reserve the vehicle. The admin can easily see the feedback and resolve the issue. The administration area allows you to configure the system and manage all the car rental information. Common sections of the management system are: "Add New Item", a search box on each page to provide easy access to data, and a data edit page (in each section). After joining the system, you will be able to govern many information regions.

B. User Module:

Customers can examine available vehicles and rent them as needed.

- Sign in/register as a customer.
- Look for a vehicle that meets their specifications.
- Rent a vehicle according to the terms and conditions.
- Customers must personally submit their documents for identity verification and security.

8. Snapshot

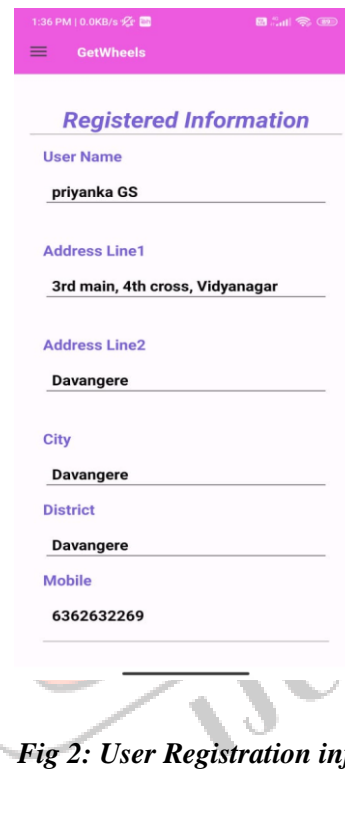*Fig 1: Vehicle List*   *Fig 2: User Registration info*

Fig1 represents the vehicle list consist of number vehicles, where the user wants to book. It contains information, image, video and booking details of the vehicle, and also user can give the feedback about vehicle.

Fig 2 represents the user registration by giving all the details about the user, after registration user can login.

9. Conclusion

"Get wheel" is an application that can help users to find vehicle rental. In addition, users can register and can place the order. This application is developed on android platform by leveraging APIs, Google Places and Google Maps API v2. The Android Studio software, which makes use of Java programming language, was used to create the Get Wheel system for renting cars and motorcycles.

Based on the outcomes of creating mobile-depending applications for renting automobiles, it can be said that:

1. This application can be used to select vehicles based on community needs.
2. To simplify the process of renting and renting vehicles in the form of cars and motorbikes, online rental applications can be employed.

10. Future Enhancement

We can enhance this project by implementing the following features to this app:

- We can provide online payment facility.
- We can provide GPS facility to track vehicle movement.

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