**Drive -it Car Rental System**

**ABSTRACT:**

This Car Rental System project is designed to help the car rental organization to enable renting cars through an online system. It helps the clients to check available cars profile and book the cars for the time period. It has an easy to understand interface which helps the client to check for cars and rent them for the period determined. They could likewise make payment on the online. Based on a type of car required by the client, the client will have able to make bookings. The utilization of internet technology has made it simple for the clients to rent a car at anytime. This Car Rental System makes the booking easy. It spares time and work. The apparatus will approach the client for data, for example, the date and time of journey, kind of car and so forth. Likewise, it will require a recognizable identification. Utilizing these details, the tool will help the client with booking a car for the journey. There is also an option to hire a driver if client already has a vehicle and no driver. Anyone with an Indian driving license can apply to be a driver by registering in the drivers registration page and is approved by the admin.

**EXISTING SYSTEM:**

Car Rental System service will help clients with booking a car for some fee determined. Till now there was no easily accessible app to help the clients with renting the vehicle of their required taste. It was a difficult task to manage rental vehicles. Keeping track of all the rental cars was also an issue.

It is necessary to modify the existing system in order to include additional information and make the system efficient, flexible and secure.

**PROPOSED SYSTEM:**

This Car Rental System task will enable the client to rent a vehicle. The client will log in to the system and check for the availability of cars. The client indicates a kind of car and the journey date and time. The Car Rental System will check for the availability of the car and rent the car to the client. The client can make payment on the online. Every one of the information with respect to the rental cars are stored in Firebase database. The client needs to enter his name, address, phone details and check for the cars available for rent. The client also has the ability to request for a driver separately.

**Actors :**

1. Admin
2. Car Owners
3. Customer/users
4. Drivers

**Admin**

Admin manages and controls the system . Admin can verify/authenticate drivers and car owners and has the ability to block them. Admin can view all the registered users and also manage them. Admin can also check the price of some used cars to better understand the rates of the used car in the current market. Admin can view the complaints given by the customers and take necessary actions. Admin gets a small set cut of the rent and can view all the car bookings that has completed.

**Car Owners**

Car Owner can add cars to the system which includes giving the required details about the car and view their current status. The user after completing the car rent can request for bill generation to the car owner. The car owner generates the bill and set percentage is also gone to the admin.

**Customers**

Customer/User can register in the car rental system after providing necessary information. They can then view all the available cars and their details and can rent a suitable car of their choice. After renting the car they can pay the overall amount. They can request for a driver separately if they require. They can communicate with the driver and even raise complaints.

**Drivers**

Driver first needs to be authenticated/verified by the Admin. Driver then can accept the requests sent by the users and take up the job. Drivers can call the user to communicate and clarify any needs or requirements.

**Technologies used:**

Dart,Flutter,Firebase.