**CAR RENTAL SYSTEM**

Team:

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**INTRODUCTION:**

The “Car Rental System” project deals with renting cars to the users based on their preferences. It consists of a user interface where the customers can view the models, descriptions and prices of different cars available and can choose from them. So, this system provides users with accurate data and representation of a large number of available cars which could not have been possible with the manual car rental system. It can be implemented by cab operators to track their day-to-day operations.

**EXISTING SYSTEM:**

In present systems, the data is managed manually by the organisations with piles of papers. As the details are stored in papers, maintenance is a huge problem. Updating or changing the details is a very tedious task.

Most of the bookings for car rental systems today happens either over call or meeting at the car rental provider’s office. This might cause a mismatch in address or billing information specified. This can lead to chaos with both the parties blaming on one another.

Also, the car is rented on per-day basis. So, even if a user wants to rent a car for say a week, he needs to pay.

**PROPOSED SYSTEM:**

Data of the users and cars is stored electronically. So, the maintenance work and cost is very low as compared to the existing manual system. This automated system facilitates customer and provider to fill up the details according to their requirements. It includes the model, price and location of the rented car.

The address details and billing is safe and secure. Any, miscommunication cannot occur as all the booking details are filled by the user itself.

The car can not only be rented on per-day basis but also on per-hour and per-week basis which adds more functionality to the product and can be helpful for both the providers and the customers.

**RELATIONAL DATABASE STRUCTURE**

Details of the user and cars are stored in SQLite. Payment and billing information will be stored in SQLite database.

**RDBMS AND NOSQL INTEGRATION**

Registration and login details are stored in Firebase database in real time. It provides authentication along with storing user accounts.

**SOFTWARE TOOLS USED**

Android Studio

SQLite

Firebase

**SOCIETAL CONCERN**

It helps users to easily rent a vehicle saving their time and with no issues. Users can select their preferred car among variety of cars with a reasonable price.