Smart Car Parking System Approach Using Firebase

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INTRODUCTION

The number of personal vehicles usage is increasing manifold. People prefer personal vehicles to commute than depend on public transportation. Finding a parking space in most metropolitan areas, especially during the rush hours, is difficult for drivers. Due to this there is a need to provide sufficient parking places coupled with plenty of slots to help the user park his vehicle safely, also to ensure the user does not end up parking on non-parking area and cause discomfort to pedestrian.

OBJECTIVE

To develop an efficient and time saving parking slot application to reduce traffic and inconvenience while parking vehicles.

MATERIAL AND METHOD

OUR APPROACH

The User will select a slot according his choice and when he arrives at selected location, user's location should matched the location which he booked.

IMPLEMENTATION

- Store User's detail in Database
- Providing a real time visual interface that will allow customers to select their preferred parking slot.
- Calculation of Fare according to his selected slots and redirecting to Payment Gateway
- Pressing leave button to leave the slot

TECHNOLOGIES USED

- Android
- Firebase

BENEFITS

- Reducing Traffic within the parking slot.
- Implementing a smart pricing system to attract customers.
- Allowing customers to make reservations online in advance.
- Providing a real time visual interface that will allow customers to select their preferred parking slot.

RESULTS AND CONCLUSIONS

In this project, we designed a smart parking application which allows user to select parking slot according to his need. The application will ensure safety of vehicle and reduces frustration of drivers.

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