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AGENT BASED VALET PARKING SYSTEM USING ANDROID

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ABSTRACT:

Valet parking system consists of thoughtfully designed yet quickly mastered software applications which are easy to use for technologically less focused people to use ride on demand service. Our findings have made us understand the need of on demand valet service system in the metropolitan cities of India due to the growing population and the resulting rise in the vehicle traffic. This project builds an architecture based on the Firebase Cloud Messaging(FCM) technology and implements a novel algorithm that provides a valet parking system. This paper proposed a method that assists users in finding the cheapest parking solutions by using modern performance metrics to measure the user parking cost based on distance and time. This cost would be used to provide a solution for locating an appropriate valet service provider in response to a user's request, as well as a solution for recommending a new valet service provider if the current valet service provider refuses the request or no one is available to serve at the time. The simulation results show that the algorithm assists users in receiving on-demand valet service and reduces the time spent looking for parking in real time. We would also be effective in putting the proposed framework into practise.

Keywords: car parking, valet, machine learning, k nearest neighbor, android, java, etc