Smart Parking System Integrated with Real Time Booking Application

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Abstract: *The paper additionally depicts an abnormal state perspective of the framework engineering. With the increasing urbanization and the rise in the number of vehicles, managing parking spaces has become a significant challenge in modern cities. This paper presents a Smart Parking System integrated with a real-time booking application, designed to optimize parking space utilization and provide a seamless user experience. The proposed system uses sensors to monitor parking space occupancy in real-time, offering users the ability to search, reserve, and pay for parking spots through a mobile application. By providing live updates the system reduces the time spent searching for vacant spaces, minimizes congestion, and enhances the overall efficiency of urban parking management., the integration of a real-time booking system ensures that users can plan their parking in advance. The system's adaptability to different parking structures, combined with its user-friendly interface, presents a scalable solution for smart cities aiming to streamline urban mobility and reduce environmental impact through reduced traffic congestion and improved traffic flow.*

Keywords: Smart Car Parking, IOT, real time, optimization, streamline mobility, reduce traffic congestion

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