

Smart Parking System with Real-Time Reservation Capabilities

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Abstract: *The growing density of vehicles in modern cities has placed an increasing burden on available parking infrastructure. This paper introduces an intelligent car parking solution integrated with a real-time reservation system to optimize space allocation and streamline user experiences. The proposed system utilizes embedded sensors and a dedicated mobile application, enabling users to monitor space availability, reserve slots, and complete payments from their smartphones. This innovation reduces traffic congestion, minimizes search times, and supports environmentally conscious urban development.*

Keywords: Intelligent Parking, Internet of Things, Real-Time Slot Booking, Urban Traffic Control, Parking Management

