

Automatic Smart Vehicle Parking System

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Abstract

To avoid the problem of traffic conjunction in commercial areas that unnecessarily consumes time, this paper provides the easy reservation system for parking. In this application the user can view various parking slots and check for the availability of slots. The application provides the design of data program and the approach of automatically producing allocated and free spaces for parking. This application describes the principle of the online parking system, it presents the main functions of the parking facility, analyses the auto-generating allocated and free space for parking and the security of the parking system. This online parking system includes the architectural components as Browser-Server architecture, Client-Server Architecture, Security. This system presents an android application for Parking System developed with Android Studio and Firebase technologies. The system provides the functions, including parking management, spot generation, online registration and booking. Also the combination of client-side programming and server side programming techniques were used and analyzed. The system describes the android application that is used to book parking spaces online. Smart parking solutions like Parker and assist drivers to identify easily about nearby parking places. A number plate is the unique identification of vehicle. Real time number plate recognition plays an important role in maintaining law enforcement and maintaining traffic rules