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A New Prototype of Smart Parking System Using Wireless Sensors

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Abstract: Recently parking has become a serious issue and even worsen, because of the increasing number of automobiles everywhere. In this project we propose an IoT based guidance for user to monitor and book the parking space for the vehicle and for managing and monitoring free parking space, it provides an intelligent solution. It aims at implementing smarter and better parking guidance mechanism which significantly reduces difficulty in conventional parking system. The system can monitor the state of every parking slot by deploying a sensor node on the slot. Accordingly sensor senses the status of parking slot and send status to central node server controller. The Node MCU collect the data from all sensor node and upload to the server where user can check the parking status from anywhere using internet and any browser.

Keywords: IOT, Adfruit IO, NodeMCU ESP8266, IR Sensors, Wi-Fi Module, RFID, Parking Module

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