

ABSTRACT

CAR-PARKING GUIDANCE SYSTEM

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Research in the making of a car-parking guidance system aims to reduce the confusion of parking service users in a parking building in finding an empty parking space for their cars. This research is based on Node MCU which will later control the ultrasonic sensor in detecting whether the parking lot is filled by a car in a parking building. This system will also use a website which will be used to find out which parking spaces can be occupied after being detected by an ultrasonic sensor. The website will display which parking locations are empty by displaying a green box and where my filled in by displaying a red box and this website will open after the user scans the QR Code at the entrance of the parking area. The research method used by the author this time uses the waterfall method. The advantages gained from research and manufacture of car park vacant location search guidance system is to be able to find an empty parking space in a parking building without the need to drive around the parking building. There is also a shortage of research and manufacture of this smart car parking system, namely the payment of parking fees is still using conventional methods because it has not been incorporated in a website that has been made and also this smart car parking system can only be done in certain parking buildings.

Keywords: *parking system, nodeMCU, ultrasonic sensor, database, website*

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