DESIGN AND BUILD MULTI-BLOCK CAR PARKING SYSTEM

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ABSTRACT

Most car users often find it difficult to find a parking space because of the lack of information on the availability of parking spaces. This causes irregular placement of car parks, especially in crowded places such as shopping parking lots, malls, hotels and places of high-rise buildings. This study aims to make it easier for parking users to find available parking slots in the parking lot. The parking system is designed to open and close the gate automatically and provide information on the parking slot that must be addressed by the driver on the LCD located in the entrance area. This system also displays available and unavailable parking slots on the web. Based on the tests that have been carried out on the research tool, the tool successfully manages the car and counts the number of cars. The test results are obtained with a parking slot detection accuracy rate of 95% and a vehicle counter of 89%.

***Keywords** : Parking system, Parking slot, NodeMCU ESP8266*