ABSTRACK

In everyday life people need a vehicle to indulge. Therefore, motorists need space to park vehicles. Today the use of four-wheeled vehicles and two-wheeler is growing every year. When the vehicle is used to move to a place it requires a parking lot. Parking place in public places has now become a problem, one of the main problems is the problem of the system of four-wheel vehicle parking area in a public place. In this study, the authors developed a prototype technology Automatic Parking Area Monitoring Using Wireless Local Area Network. These systems help users automatically find the parking area while still outside the building with a wireless network.

The system of this parking area using a camera, photodiode and Ultraviolet (UV). This study uses a camera that serves as a parking area monitoring, while the photodiode sensor serves as a sensor receiver and ultraviolet (UV) serves as a detector car into the parking slot. Each parking slot there is a photodiode sensor and ultraviolet (UV), The connection between the sensor photodiode and lightUltraviolet (UV)MQTT integrated with the Protocol, so that these prototypes can work wirelles.The design of the park land consists of two floors each floor consists of six parking slots, The prototype here wearing one camera to two floors.

Test results from this system indicate that the sensor can work well when the car is in the slot that has been determined. The success rate on this system is 100% and in accordance with the expected results.

Keywords: Parking Area, Wireless Local Area Network, Image Processing, VNC Viewer, Photodioda, Ultraviolet (UV), MQTT.