ABSTRACT

Lack of literacy in driving rules has led to an increase in the number of violations in residential areas. This can lead to undesirable things such as accidents - based vehicle noise to database function as a violation detector, such as vehicles that exceed the maximum speed limit and vehicles with noisy exhaust in a residential environment using the Internet of Things platform. The purpose of this tool is to make residential areas safer, especially for small and middle-aged children.

The Internet of Things platform used is a web server that can perform a monitoring process based on the Internet of Things to assist traffic police in ensuring vehicle speed sensor data and vehicle noise. This research was conducted to prove the system is functioning by testing website, Quality of Service (QoS) based on delay and throughput on ITU-T G.1010 standards and server.

The results of testing the functionality of the features on the website can work well. The results of the QoS test obtained in the user process to the website are based on delay and throughput parameters on the ITU-T G.1010 standard and using wireshark software. The average delay value is 0,405s, while the average throughput value is 5686 bps or 5,6 kbps.

Keywords: *Website, Web Server, Internet of Things, Violations on the road.*