ABSTRACT

Water is an element needed by all living creatures, especially humans. Because the need for water is increasing, especially for humans, companies have been established that can manage this water better and can also manage waste water so that it can be reused. In Indonesia, human water needs are managed by a state-owned company called PDAM. Of course, this company charges a fee for water usage for each customer. Until now, data collection on customers is still done using the old method, namely taking data on each customer's house manually by taking pictures of each meter.

To overcome this, a system is needed so that PDAM officers can work effectively. In this research, a prototype was designed for monitoring water meters to obtain customer data using the Internet of Things concept. This system uses a Water Flow Sensor as a sensor that can detect the amount of water discharge, then Wemos as a sensor control center, and the Internet to display data that has been converted from sensor output.

This research aims to make the monitoring system for customer data effective. In this research, a simulation was carried out by designing a prototype resembling a home water meter system that would be supplied with water using a water pump. Then, Quality of Service (QoS) testing was carried out which was the parameter in this research.

Key Words   : *Water Flow Sensor, Wemos, Internet of Things, water meter, Quality of Service (QoS).*