

ABSTRACT

Monitoring water reservoirs is very important to ensure the availability of clean water and prevent waste or shortage of water. Water reservoirs that are not properly monitored can cause various problems, such as lack of water quality, contamination, or running out of water, which can affect the quality of life and public health. This research aims to develop an efficient and accurate water tank monitoring system using sensor technology and the Internet of Things (IoT). This system is designed to provide real-time information about water levels, water quality, and detect water health, thereby enabling more effective water resource management. The research results show that the water reservoir monitoring system developed is able to provide accurate and real-time data about the condition of the water reservoir. This system successfully detects changes in water level with high accuracy and provides warnings. In this method I use to solve problems related to water quality with two stages, namely analysis, which involves measuring pH and TDS. Based on the method used, it will affect water quality. When the water experiences turbidity it will be exposed to the pH sensor and if the TDS sensor comes into contact with particles such as soil, moss or other particles it will be monitored via TDS.

Keywords: *Water reservoir, IoT, TDS sensor, pH sensor, website*