ABSTRACT

Excessive wastage of water has become a serious problem affecting our environment. Due to excessive wastage, water shortage can cause many environmental problems such as climate change, drought, increased pollution and increased human needs, since fresh water is not available in abundance it is very important for proper water usage and management. There is an urgent need to monitor water wastage in various sectors such as housing, industry or commercial areas. Consultation and discussion Apart from studying the literature, the authors also consulted and discussed with the advisors to determine the research theme and research process. Testing Aims to test the results of the Prototype monitoring system for filling the water tank using an android application based on the internet of things. The water tower that has an ultrasonic sensor module installed can measure the water level at any time. The water level data is then sent to the Blynk server in real time. If the water level reaches 16 cm in the prototype, the pump will automatically turn off and there will be a notification on the Blynk application that the water reservoir is full. If you want real-time monitoring results, you need a stable internet connection. The dimensions of the water container as a miniature tower are zoom in to get better results. From the prototype that has been made, there are suggestions from the author for further research. Increasing the number of water reservoirs / tanks will be able to more accurately simulate large industries that have several water tanks. Implementation of this IoT system can benefit these large industries.

Keywords: Monitoring Water Toren Filling, Blynk, Esp32, Ultrasonic Sensors