
Abstract

It is very important to determine the amount of water needed every day for someone, more for health needs. Input data from water level and temperature play an important role in the level of drinking water consumption in this study. The variable level of air height and room temperature is used to map an input space into the output space for the calculation of air consumption. The purpose of this paper is to design and implement an IoT-based drink reminder tool and use fuzzy logic. Fuzzy sets like Low, Medium, and High, which means you drink a little, enough, and a lot. Fuzzy Set is chosen with a method that matches the water consumption prediction model, after producing a direct output, it is transferred to the blynk server to be converted into a drink reminder notification. By using the fuzzy logic method, predictions of the consumption of drinking water needed for daily activities - very accurate and acceptable also predictive models that have been processed in fuzzy produce the appropriate output. This model quotes with a 3 hour notification period for one day and is able to make predictions and success. With this tool, it is expected that a lack of fluids in the body can be prevented.

Keywords: smart water bottle, fuzzy logic, dehydration, blynk
