

ABSTRACT

Implementation of Fuzzy Logic on Android-Based Plant Watering System with Internet of Things Technology is a research that aims to create a plant watering automation system that can be set automatically using Android applications and Internet of Things (IoT) technology. In this study, the authors implemented the Fuzzy Logic method to control the plant watering system. Fuzzy Logic is used to calculate the amount of water needed by plants based on several factors such as temperature, air humidity, and soil moisture. These data are captured by sensors installed in the system. In addition, the author also uses IoT technology to connect the plant watering system with the Android application. Using the Android application, users can set, change system settings, as well as monitor the condition of plants in realtime. The results of this study show that the plant watering automation system using the Fuzzy Logic method and IoT technology can produce more efficient and timely watering of plants, as well as make it easier for users to control and monitor the system remotely through the Android application.

Keywords: *Fuzzy Logic, Android, Internet of Things (IoT), Auto flush, Smart Garden*