ABSTRACT

Cactus plants are sensitive to soil moisture and require the right level of soil moisture for their growth and health. However, plant owners often face difficulties in providing regular watering care. The main problem in cultivating cactus plants is the inability of owners to provide adequate watering according to the plant's needs.

To address this issue, we developed an Internet of Things (IoT) based solution using an automatic watering device. This device is equipped with sensor soil moistures that can monitor the moisture levels in cactus plants. The use of sensor kelembapan tanahs enables owners to accurately measure and control Kelembapan Tanah , allowing for automatic watering based on the specific needs of the cactus plants.

The results of the study showed that the use of IoT-based watering devices was effective in providing proper watering care for cactus plants. The quantitative and qualitative data collected indicated an improvement in the growth and health of the cactus plants after the implementation of this device. In conclusion, IoT-based watering devices can serve as a practical and efficient solution for nurturing cactus plants by providing accurate watering according to their specific needs.

Keywords: *Internet of Things, soil moisture, automatic watering, cactus plants*