

ABSTRACT

The dry season occurs in the period May - October. With the dry season, there were problems with plants in Telkom University's dormitory garden, based on questionnaires that had been distributed and filled out of a total of 30 respondents including Telkom University dorm staff 2018/2019 that 90% of boarding staff agreed to lack of watering plants at Telkom University dormitory garden. Less rainfall in May to October makes many plants experience drought which causes the plants to wither to death.

In the final project entitled Implementation of Smart Garden Watering at Dormitory Garden of Telkom University Based on Android Using Antares Database this serves to monitor water discharge data that must be issued by the dormitory manager in a certain period of time, monitoring soil moisture, and can do manual watering plants based on android.

From the results of tests that have been done show that the automatic system on the scheduling and monitoring features run well, with a percentage of success of 90% in one of the tests shows the tap water does not open when soil moisture < 7 and the manual system on the controlling feature runs well with the percentage 100% success and one time delay watering process on sending data from the application-Antares is 0.711 seconds and Antares-tool is 2.8 seconds with a total one time delay watering process that is 3.511 seconds. Out of a total of six respondents on the questionnaire, 100% of the hostel staff agreed that the sGarter application could function well and the notification of soil moisture and water discharge could be understood properly.

Keywords: Internet of Things, Android Applications, Antares Database, Soil Moisture, Water Flow Meter.