Design of Control System for Portable Sprayer Based on Blynk IOT App Ahmad Rofi'i, S.Pd., M.Pd. (Thesis Supervisor)

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ABSTRACT

Vanilla is one of the most popular crops in Indonesia because it has high economic value and is widely distributed in various provinces in Indonesia. However, in the practice of vanilla cultivation, the manual watering method that is still widely used by farmers is often ineffective and time-consuming. In today's technological era, a system is needed that can monitor and control watering in real-time. This research aims to create a tool with a touch of technology based on Blynk IoT that can help control and monitor watering on vanilla plants easily and in real-time. The design of the tool in this study was tested using functional suitability testing and usability testing. The design results of this study have met the testing standards on functional suitability characteristics with a percentage of 100% in the acceptable category, usability characteristics of 93.63% in the very good category.

Keywords: Vanilla, Monitoring, Blynk, Iot