ABSTRACT

Close house chicken coop system is a system that is widely used in chicken farms today. The Close house system has a regular temperature, but it is still necessary to monitor and control the temperature to match the ideal conditions required by chickens. Therefore, in this final project, an Internet of Things (IoT) based monitoring and temperature control system for chicken coops was created and an application. This application is made using a platform that has a Visual block programming language (VPL) that can display temperature and humidity in real time, information about active actuators, download data, and display graphs of temperature and humidity. For application testing, two tests were carried out, namely application feature testing and monitoring testing. In testing application features using the black box method, this method is carried out by comparing the features that have been created with the test scenario. The monitoring test was carried out for one day with the main element value of QoS (Quality of Service) of the internet network used, namely throughput of 2561 Kbits/s, 0% packet loss, 2.67 ms delay and 2.7 ms jitter. There is no difference in the data at the time of testing obtained from the system and application.

Keywords Close-House-type, Mobile Application, PoultryFarm Temperature monitoring