ABSTRACT

Chicken is a livestock that is very popular in Indonesian society. Own chicken production from year to year is always increasing, it can be seen in 2018 up 10% compared to the previous year, this is required by the number of new breeders and a lot of market demand. Brooding is done for 14 days. One of several factors, one of which is about temperature and feed allocation. The inappropriate temperature of the chicken coop can affect the decrease in productivity and cause death in chickens. Conserving and drinking also influences the election. With the presence of IoT technology, it is expected to be a solution to overcome mortality in chickens. So, in this case, it was designed to reduce mortality by even more considerations in raising chickens. This research discusses the monitoring system of chicken eating and drinking using a loadcell sensor and DHT11 sensor. Loadcell sensors are used with a maximum of 10,000 grams. The loadcell sensor can read with gram units accurately because it only has an error of 0.002% on loadcell feeds and drinks loadcell has an error of 0.007%. The DHT11 sensor used as a cage temperature gauge, DHT11 can read the temperature in denganC units, fully approved by DHT11 which is accepted only because it has an error of only 0.003%. Simonyam application that is made able to read the load at the place to eat and be able to read notifications on the phone then give notification to the smartphone. The smartphone that is used with OS v.5.0 Lollipop, 3GB RAM.

Keywords: Chicken, DHT11 Sensor, Loadcell Sensor, Android Application, Smartphone.