Abstract

The quality of the chicken coop determines the quality of the chicken to be breed and the quality of the eggs to be produced. The quality of the chicken coop can be seen through the size of the cage that was built to accommodate the number of chickens to be reared. Once the chicken coop is built is able to accommodate the number of chickens that much, the thing to note is the optimal temperature to determine and maintain the number of existing chicken life dikandang. Usually the breeders make the temperature settings manually to turn the lights in turn that will keep the temperature in the chicken coop. With this system, some problems arise such as the less efficient use of time that is if the farmer is not in the area of the cage while the lights in the cage must be turned on or otherwise can not be done. So the influence of temperature is not appropriate for the chicken to make a lot of chickens that died and of course will affect the food security in Indonesia.

Temperature settings are necessary when the hatching process is complete. Physical weakness of chicks greatly makes them vulnerable to deaths caused by weather changes. In this case at the age of 0 - 7 days after the chickens hatch, it is necessary to do intensive temperature regulation to help the chicks can survive until ketahap where they are able to cope with changes in the weather itself. After reviewing the issue, inspiration emerged to create a Chicken Temperature Monitoring System using an Internet-based (IoT) based device called SaveYourChicken!.

This device is used by farmers to more easily monitor the temperature in the chicken coop. This device is made by using waterfall system, and assisted by using tools of Android Studio and Arduino Uno.

Keywords*: henhouse, Android Studio, Arduino Uno, temperature, Monitoring system.*