

ABSTRACT

Damage to rice crops due to bird attacks is a major problem for the agricultural industry in Indonesia, as well as throughout the world. Various kinds of traditional methods have been used by farmers to drive away birds that attack crops such as using scarecrows and using firecrackers.

Based on this, the author and two other co-authors tried to make a smartdrone that was used as an effort to expel flocks of birds that attacked farmers' crops. The smartdrone is equipped with a camera that is programmed to detect flocks of birds. Thus, farmers can find out which rice fields are most visited by flocks of birds. Apart from the camera, the smart drone is also equipped with a speaker which is used as a means of repelling flocks of birds. In this final project, a website-based system is created that can monitor the performance and results of smartdrone monitoring of bird attacks in rice fields. By using Internet of Things technology, the website is already integrated with Google Firebase. So, the website will always receive data sent by smart drones in real time.

Based on the results of the tests that have been carried out, it is known that functionally the website can properly receive data sent by smart drones and can display data according to what is on Google Firebase.

Keywords: *Smartdrone, Monitoring, Website, Internet of Things, Google Firebase, Realtime.*