

ABSTRACT

Bird species continue to increase every year so this should increase our concern for the unique natural resources that are owned, as with other animals, the number of bird species in Indonesia is also of course likely to continue to increase. Moreover, now we must jointly play an active role in protecting endangered species to avoid extinction, for example starting from bird care, in this case, one of them is lovebirds, which are quite difficult in maintenance, keepers or cultivators of this type of bird must pay attention to feed, bathing and cleanliness. the cage, because otherwise it will cause problems for birds such as diseases / viruses, and also if the feed given is too much it will cause obesity which will cause death.

In the process of breeding birds, it is our priority in maintaining sustainability from extinction. One of the objectives of this research is to make a colony cage or bird pair cage that can be controlled and can also function automatically to make it easier for breeders or bird keepers to breed their birds, in this case lovebirds. Smart enclosures with equipment such as the Arduino, ESP8266 can be integrated as a control service using it and using the Web. This research has specifications of feeding, bathing, and cleaning drums automatically.

The results obtained from this final project are or show that, where the output of this tool itself is so that birds can have regular eating patterns and avoid obesity and several pathogenic diseases that often attack birds as well and make it easier for the keepers to care for this lovebird type bird which is like we know the treatment is quite difficult and must be routine in caring for it every day to get good results.

Keywords: *Arduino, Love Bird, IoT, Rarebirds, Automatic.*