ABSTRACT

.

Nowadays, many people have a hobby of raising birds and make it a promising business opportunity, both making small farms and large farms. Problems that are often faced by bird breeders to care for birds such as being late in feeding and drinking birds. Therefore, a system or tool is needed that can monitor feed and drink automatically with a predetermined time using the website. The way the system works for feeding birds is designed using the ESP32 microcontroller which is used as the main control tool, a servo motor as a drive that fills the bird feed place and in the bird drinking place a mini pump has been provided to collect water in the drinking place, and following the schedule that has been inputted by the owner through the website. For this system, it will be connected using a WI-FI network so that it runs properly. All cage conditions will automatically enter the database so that they can be displayed through the website. The research concludes that the tool functions based on the input time on the website. The system sends notifications to the breeder's smartphone regarding successful feeding and drinking, with an error rate of less than 20% in system testing and over 80% accuracy in system functioning. The outcome is in the form of a tool dispensing feed and drink daily, in accordance with the breeder's specified hours. It is hoped that this tool can monitor bird feed and drinking automatically even over long distances.

Keywords: *Monitoring; Internet of Things (IoT); Website; Bird; Automation.*