ABSTRACT

Cats are one of the animals that are mostly kept by humans, when we raise pets our main focus is to take care of them by meeting all their needs, especially regular feeding. This routine certainly makes the cat owner feel troubled if he must work, study, or go out of town and there is no one to feed the pet. The purpose of this research is the development of the Internet of Things-based automatic cat feeding and monitoring system.

This system was built using an ESP32 microcontroller, HC-SR04 ultrasonic sensors, and servo motors acting as an actuators so that the cat food can come out semi automatically. This system uses concepts of scheduling feed according to the time specified via a blynk application. This system can also monitor the amount of cat food in the container.

The results of this study by testing for 3 days with the method of adjusting the feeding schedule 3 times a day, namely morning, afternoon and evening, this tool can function properly and work according to the specified time so that it helps cat pet owners to be able to feed their cats regularly even when you're not at home. Servo rotation is optimized at 31° and gets an average error of 11.2% with the amount of feed issued as much as 20-25 grams.

Kata kunci: *Internet of Things* (IoT), Kucing, Mikrokontroler, Sensor