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

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