

# ***DESIGN OF IoT-BASED CAT FEEDING USING SOUND SENSORS***

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## ***ABSTRACT***

*Cats are one of the favorite pets of animal lovers. This is not surprising because this furry animal has a cute and adorable face. Conventional cat feeding is considered less effective because if the caretaker does not have time to give it, it will have an impact on the health of the cat itself. In this final project research project, the authors used several methods to complete this research, namely: Literature Study, ESP8266 Circuitry, RTC DS3231, KY-037 Sensor, and ultrasonic sensors, data testing and processing, results and discussion, conclusions. The results of the DESIGN AND DEVELOPMENT OF CASE FEEDING SYSTEM USING IoT-BASED SOUND SENSORS are in the form of a prototype tool that uses a wooden box in the form of a KY037 sensor, RTC DS3231 as an indicator of cat feeding and a servo motor as an opener for feed containers and an HC-SR04 ultrasonic sensor as a marker for the remaining feed in container. The tool made in this study succeeded in providing feed according to the specified time and based on sound when the cat was hungry with a success rate of 100% based on 10 trials. Based on tests that have been carried out 10 times, this tool is capable of monitoring the provision and availability of cat food using the Telegram Bot application.*

**Keywords:** *Cats, Telegram Bot, ESP8266*