

PERANCANGAN SISTEM MONITORING PAKAN KUCING OTOMATIS DENGAN ANTARMUKA DAN SISTEM KENDALI BLYNK

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ABSTRACT

Technological advancements benefit humans and can be applied to pet care. One of the challenges cat owners face is ensuring regular feeding, especially when they are away from home. To address this issue, this research develops an automatic cat-feeding monitoring system based on the Internet of Things (IoT), featuring an interface and control system utilizing the Blynk application. The system is designed using NodeMCU as the microcontroller, two ultrasonic sensors to detect feed capacity and cat presence, an RTC module for automatic feeding scheduling, two servo motors to open and close the feeding and disposal compartments, and a buzzer to indicate servo motor activity. The Blynk application displays feed status information and provides users with remote control access. The research results demonstrate that the designed system functions as intended. Users can monitor feed capacity, detect cat presence, and control feeding remotely via a wireless network using the Blynk application. With this system, cat owners can ensure their pets' feeding needs are met even when not at home, improving efficiency and convenience in pet care.

Keywords: Automation, Blynk, IoT, Monitoring, Feeding