

ABSTRACT

Cidugaleun Village is one of the areas in Tasikmalaya Regency which has a lot of tourism potential. Recently, Cidugaleun Village was attacked by a herd of monkeys that attacked the plantations of local residents. The solution to this problem is a monkey pest control tool that detects the presence of monkeys using Arduino UNO as a microcontroller and sensors used in the system, namely the MLX90614 sensor which can read the temperature of monkey objects, ultrasonic sensors which can read distances and emit ultrasonic waves, passive infrared sensors. which can read a movement that passes, as well as CCTV to monitor the movement of monkeys or any object that passes. The prototype of the monkey pest control system uses Arduino which functions as a data processor. Software design consists of coding on the Arduino IDE. The working system of the tool will detect motion, temperature and distance in a test box measuring 24 cm x 10 cm x 10 cm and displays that temperature on a 16x2 I2C LCD monitor. Using the NDLC (Network Development Life Cycle) System development model, NDLC is a key model in the process of designing computer networks. NDLC is a model that defines the process cycle of building or developing a computer network system, such as a system development model for software applications. NDLC consists of elements that define specific phases, stages, steps or mechanisms.

Keywords: Prototype; Arduino; MLX90164; Ultrasonik; Passive Infrared Sensor; NDLC