ABSTRACT

In the world of agriculture, ape pests are enemies that make farmers nervous. Monkeys eat plants from 3 weeks of age until harvest. That way farmers must always take care of the plants from morning to evening to get maximum yields. Therefore, to get maximum yields, a solution is needed that is able to assist farmers in dealing with this problem, such as designing a tool that functions as a plant security that can work automatically in carrying out the security process. This security system requires several components, namely, NodeMCU as a microcontroller, two sensors namely PIR HC-SR501 and PIR HC-SR04, RTC, Buzzer and LED. The way the system works is that when two sensors catch the movement of an object, it will be forwarded to the microcontroller, from the microcontroller it sends a command to the buzzer to give a sound notification. The results of this study are the creation of a prototype plant safety system from ape pests based on the internet of things with a success percentage of 86.7% and an error percentage of 13.3%.
Keywords —Monkeys pest, HC-SR501 Sensors, NodeMCU,Buzzer.