ABSTRACT

Along with the development of time, a new problem arises which is quite worrying, namely when leaving the house for a long time with an empty house without anyone at home. This is often a target or target for criminals to carry out their actions, namely by committing theft in a house. From these problems, a home security prototype was made by utilizing Internet of Things technology that can provide surveillance and information about the state of the home environment in real time, which when it is considered that a stranger passes or blocks the laser beam connected to the LDR sensor installed on the fence of the house. , then the alarm will be active marked with a buzzer sound, then the NodeMCU ESP8266 microcontroller will send a notification to the Smartphone as a warning sign that the house is not safe and the results will be displayed on the android application. From the results of testing the system obtained satisfactory results or in accordance with the expectations of the author. The LDR sensor and laser diode can work well, and the buzzer also works well. So that the system can send notifications through the android application contained in the user's Smartphone, which results in the conclusion that the system works in real time and must be connected to the internet network

Keywords : Internet Of Things, LDR Sensor, NodeMCU ESP8266