ABSTRACT

Security and vigilance is essential when leaving the house, where there is no possibility of excessive lights on and forgot to lock the door caused by factor rush - rush. Therefore we need an integrated system with the device - the device and can also be controlled by the homeowner from a long distance as well as the work automatically. Short messages (SMS) can be a solution, because almost every homeowner has a mobile phone that supports SMS. The system is controlled by an Arduino controller is connected to a GSM SIM Module 900A which serves as a device to receive and send short messages. The contents of messages received by GSM Module SIM 900A will be read by Arduino and will be processed, if the message content is true then Arduino can instruct the device to turn on and turn off the lights, lock and unlock doors, and to know the condition of the lights with the message "lights on and the lights off ". Send a text message with the format "#On, #Of and #Opn, #Cls.

Keywords: Arduino, control systems, GSM SIM Module 900A