ABSTRACT

Controlling technology, even it is security controlling or other things, is still using manual system nowadays. It is caused by the unavailability of technology that makes us easier in controlling everything from long-distance. In this case, the technology utilization based on long-distance controlling is still not used. For instance, in switching the lamp on, people have to switch the electric switch on first. That system is really not efficient because someone has to push the electric switch first. There is a condition where people cannot switch the lamp on directly so that their house was left without the lights or in the darkness. It can provoke the crimes in which the criminals know if the house is left by the owner.

The aim of this final paper is to minimize the crimes by using a hand-phone as the controlling media that can be connected to a controlling system in which the controlling consists of GSM modem, minimum system of Atmega 8535 as the controller to switch on or off the lamp.

In this final paper, I made a device in which the hand-phone as the controller and it would use the programming language of J2ME in its implementation to make the controlling application on the hand-phone. Then, the data connection that would be used was a short message service (SMS) that the data would be sent from the controlling hand-phone. Then, the system performance would also be analyzed.

Keywords: Control, Micro-controller Atmel AVR Atmega8535, SMS