ABSTRACT

We usually have a problem about the security, On this case security is concerning to the security system an building, office, or which a kind of. The level of security system designed is based from the existing circumstance like where this system will be applied, how important the object that will be secure, or whosoever will be uses that system etc.

This tools have been realized by writer at Final Project with the title The Design and Realization Electronic Key With Database Processing at D3 Electrical Engineering Study Program. Though by then this appliance walk better, but not yet earned the implementation directly, caused by some problems among other things for example : Its for which less be practical, there is no existence of electric energy system, and back up from that electric energy system, the temporary data user in microcontroller will be erased if electrical energy down, limited user because the limited internal memory from the microcontroller and solenoid as key activator have the small size so that less be strong to moving the door and hot quickly.

Based from that case, so in this Final Project the writer trying to redesign the system to completed the system before with supported tools and become ready to use.

Scheme of this appliance have based Microcontroller AT89S52. At this Final Project of the system above woke up from parts of peripheral that is a functioning keypad to give an input (in the form of other command and password) password represent keyword to be able to access the room, Microcontroller represent peripheral to process everything which have been programmed at appliance, and LCD to function as appearance. This system will be completed with computer to process the data from each person who use this key, with the result that we can watching all user every time.

Key word : Security, Microcontroller, Database, Password