PROJECT PROPOSAL

Project Title: Password-Based Door Lock System Using 8051/PIC Microcontroller

Objective:

The thing we are concerned most now a days is our safety. We always try to keep our things between ourselves. That is why we use various methods to lock our precious items. Password Based door locking system is one of them. It's a system where only the user can have access. A locking system helps us to stay out of concern while we are out of our home. So, to make our life secure, we are going to build the password-based door lock system. The system is easy to assemble and very handy to use in our daily life.

Applications:

We can set up this system in any room. It doesn't require any special utilities. The system can also be integrated with an existing system. This electric combination lock system uses a certain digit of password. The system collects those digits from user and compare it with the preset password inside the program. If the password matches, access will be granted, and if the password doesn't match access will be denied. If the user gives wrong input consequently for a number of time, the door will be locked permanently and it'll require some special combination to unlock the door later on. Using this system will increase the security of our house and will keep our home safe from unauthorized public.
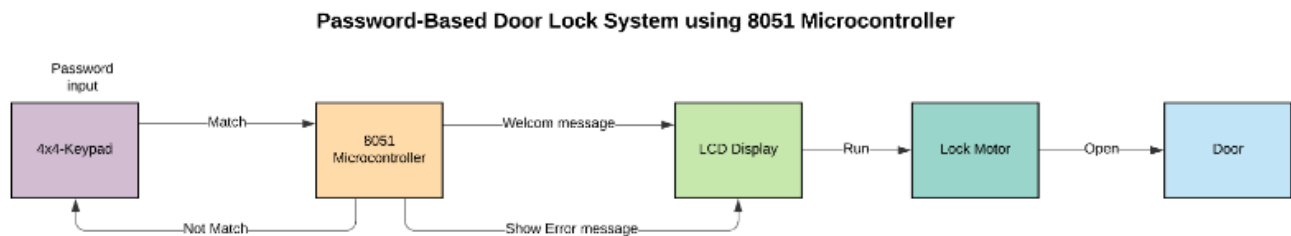
Block Diagram:

Fig: Password Based Door Lock System Block Diagram