

**Project Type:** Guided

**Project Title:** Security lock system using 8051/PIC microcontroller

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**Objective:** (What is the purpose of this project, why you want to do it, why someone will be interested in your project)

Our intention is to build a security lock system that supports multi users. One of the users will have administerial access. He will be able to add or remove any user from the system. The system will also keep a log of the people that accessed it. Having different passwords for different people will help to relocate any security breaches.

The product will be useful in cases where multiple people need secured access to a shared space/room.

We want to build this project in the attempt to solve the security issues in the cheapest way, at the same time, we In addition to this, we believe this project will enrich our skills in Microcontroller Programming.

#### **Applications:**

The applications of our project are as follows:

- High priority vaults in banks
- Sensitive places which have limited access like servers
- Door system in houses
- Multi user access control for any restricted area

#### **Block Diagram:**

