**SMART ACCESS CONTROL SYSTEM**

**AIM:**

The main aim of this project is to design **“One time password generator based Door locking system for security purpose using Android mobile”.**

# EXISTING METHOD:

# Present attendance systems in schools and colleges will have an attendance register. A faculty in case of school and a security person in case of offices will take the entries in attendance register and later need to be updating the same in computer. They need to do analysis for this as well. This will wastes a lots of time of faculties.

**PROPOSED METHOD:**

This proposed system we are replacing the attendance register with EEPROM to store the data. Attendance will be taken by means of Thumb scanning. This system will provide automation in attendance system reducing the human efforts and providing the greater accuracy in maintaining the log.

**DESCIPTION:**

In this project will consist of one finger print module interfaced with Microcontroller unit.

Switch set will be provided for selecting the options for enrolling the finger print. Using finger print module a person’s thumb scanning will be done and store in data base i.e. EEPROM. RTC will be used for maintaining the real time clock. After enrolling the finger prints in database, this system can be used for different applications. For attendance system when an employee will first scans thumb the time will be taken as entry time and while leaving from office again employee need to scan thumb, that time will be recorded as exit time and displayed on LCD.

**BLOCK DIAGRAM:**

**POWER SUPPLY**

**MICRO**

**CONTROLLER**

**(AT89S52)**

**LCD**

**FINGER**

**PRINT**

**MODULE**

**SWITCHES**

**RTC**

**EEPROM**

**SOFTWARE TOOLS :** Keil uVision, ISP.

**TARGET DEVICE :** Micro controller Board, Thumb scanner

**APPLICATIONS :** Used in schools, colleges, offices, visitors

**ADVANTAGES:**

* Time saving
* Fake time entries will be eliminated
* Better data maintenance
* Low cost, easy to implement
* More accuracy
* Low power consumption.