**SMART CARD AND PASSWORD BASED AUTHENICATION SYSTEM**

**AIM:**

The aim of this project is to authenticate & access various devices using smartcard technology with password.

**PURPOSE:**

The purpose of this project is to design a system which can authenticate several smartcards and also can able to access the devices with password.

**BLOCK DIAGRAM:**

**MICRO CONTROLLER**

**AT89S52**

**POWER SUPPLY**

**LCD DISPLAY**

**(16 X 2 LINES)**

**DEVICES**

**SMARTCARD READER**

**BUZZER**

**KEY PAD**

**Power Supply:**

**STEP DOWN**

**TRANSFORMER**

**BRIDGE**

**RECTIFIER**

**FILTER**

**CIRCUIT**

**REGULATOR SECTION**

**DESCRIPTION:**

The Smart Card Reader is an electronic device that reads smart cards. The card reader supplies the integrated circuit on the smart card with electricity.

The main objective of this project is Authenticated device control system which is implemented using smart card. This project is designed around a Microcontroller which forms the Control unit of the project. A smart card is used as an authentication for device control. According to this project the person who wants to access devices, need to carry their Smart Card with him. Whenever people want to access the device, they need to insert their smart card into the smart card Reader. If it valid, then it will ask for password. If the entered password is correct then only devices will be ON according to the password entered. Otherwise, the devices are not responded. If the Smart card is not authorized one, then also further accessing is not possible and buzzer will be ON.

**HARDWARE:**

1. Micro controller (AT89S52)
2. Smartcard Reader
3. LCD Display
4. Buzzer
5. Keypad
6. Devices(BULB,LED,FAN)
7. Power supply

**SOFTWARE:**

1. Kiel U vision
2. Express PCB
3. ISP

**APPLICATIONS:**

1. Home Applications
2. Industrial Applications

**RESULT:**

Hence, the project is helpful to authenticate and access smart cards with password to control the devices.