**SMART DOOR ACCESSING SYSTEM**

**AIM:**

This project is to implement security accessing using RFID technology

**PURPOSE:**

The purpose of the project is to provide security to access a system using RFID technology.

**SECURITY BLOCK**

**MICRO CONTROLLER**

**AT89S52**

**POWER SUPPLY**

**LCD DISPLAY**

**(16 X 2 LINES)**

**RFID READER**

**DOOR MOTOR**

**BUZZER**

**Power Supply:**

**STEP DOWN**

**TRANSFORMER**

**BRIDGE**

**RECTIFIER**

**FILTER**

**CIRCUIT**

**REGULATOR SECTION**

**DESCRIPTION:**

RFID cards are secure tokens that can provide security services to a wide range of applications. In this project whenever a person want to open a door he needs to show his secured RFID TAG, if the RFID tag matches then he is a valid persons, then the door will open automatically, otherwise the person is invalid and buzzer will gives beep sounds. Here the microcontroller plays the critical role in identifying the valid persons.

RFID cards are secure tokens that can provide security services to a wide range of applications. In this project whenever a person want to open a door at first show the RFID tag, if the RFID tag matches then he is a valid persons, then the door will open automatically, otherwise the person is invalid and buzzer will gives beep sounds.

**HARDWARE COMPONENTS:**

1. Microcontroller (AT89S52)
2. Power supply
3. RFID reader
4. LCD display (16\*2 lines)
5. Buzzer

**SOFTWARE TOOLS:**

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

**RESULT:**

By using this project we can provide security to access a door using RFID technology.