

## **BANK LOCKER SYSTEM USING FINGER PRINT SECURITY**

### **AIM:**

Design and Development of Bank locker system using finger print security.

### **PURPOSE:**

Now a day security is very important in everywhere. Especially in Banks security is primary concern. Traditional keys can easily copy. We have so many smart lockers available in market, but all those are very expensive. Here we are providing system to solve this. The name the system is bank locker system using finger print security.

### **DESCRIPTION:**

This project includes Finger print module (R307-biometric), which is connected to Arduino through UART interface. L293d connected to Arduino digital pins. Two button and relay-siren connected to Arduino digital pins.

### **WORKING:**

In these projects only authorized persons can access bank locker door by using finger prints. Initially we have to store finger prints in module by pressing enroll button. While accessing user has to keep finger on module and then press identification button. For authorized finger prints door will be Open. If same finger print identified again then door will be close. For unauthorized finger prints door will not access and siren will be ON. Also all this information displaying on 16X2 LCD display.

## TECHNICAL SPECIFICATIONS:

### HARDWARE:

Microcontroller	:	Arduino Uno
Crystal	:	16 MHz
LCD	:	16X2 LCD
Finger Print Module	:	Bio-metric Module (R307)
H-bridge IC	:	L293D
Motor	:	12V DC
Siren	:	5vDC
Relay	:	12v DC Coil type
Power Source	:	12v 2 amp Adaptor

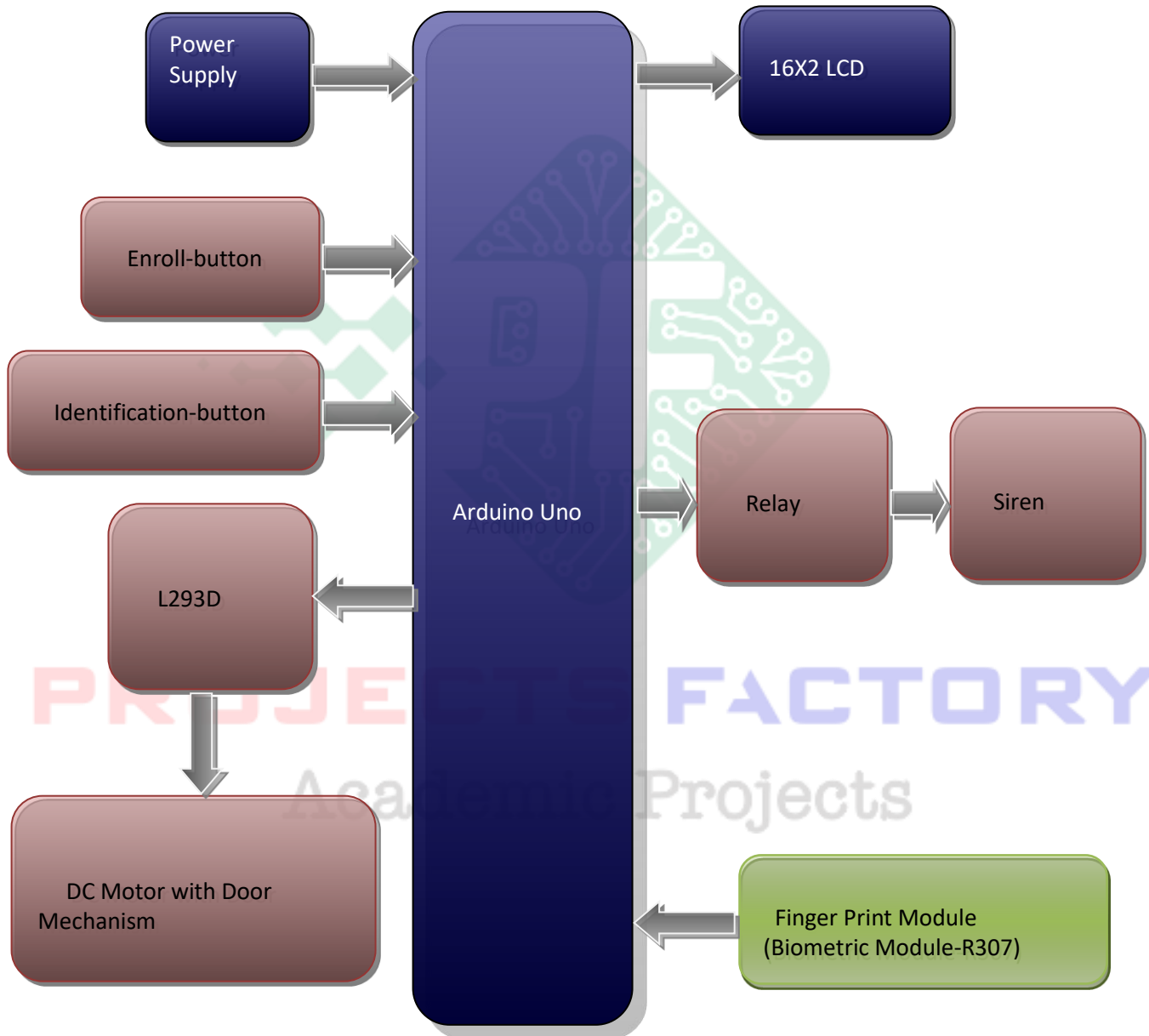
### SOFTWARE:

Arduino IDE  
Proteus based circuit diagram

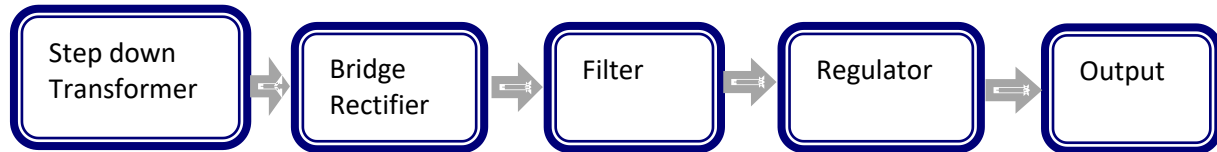
### APPLICATIONS:

- Security Applications
- Locker Applications

**BLOCK DIAGRAM:**



## POWER SUPPLY BLOCKDIAGRAM:



## INTERFACES COVERED:

- We have covered finger print module (R307-Biometric Module) interfacing
- L293D h-bridge IC interfacing



**PROJECTS FACTORY**  
Academic Projects