

FINGER PRINT BASED BIOMETRIC VOTING SYSTEM WITH STORING

AIM:

Design and Development of Fingerprint based Biometric voting system with Storing.

PURPOSE:

Normal voting system done by electronic machines or ballot papers. These are not secure and manual presence need to avoid rigging. For secure voting process we need any smart voting systems. Here we want to add biometric to voting system, this gives high level security for voting process. Here project title is fingerprint based biometric voting system with storing. After voting process data will stored in SD card.

DESCRIPTION:

This project includes Finger print module (R307-biometric), which is connected to Arduino through UART interface. Two buttons and buzzer connected to Arduino digital pins. SD card adapter connected to Arduino SPI pins.

WORKING:

Here voting process happen through finger prints. Each person can enroll finger. After finger identified in module then we have to do voting. The voting process happens through buttons. Here three buttons allotted for three parties and fourth button for total. If any person do voting again system won't allotted and buzzer will be ON. For unauthorized people buzzer will be ON. All this voting and total will store in SD card. Also data display on 16X2 LCD display.

TECHNICAL SPECIFICATIONS:

HARDWARE:

Microcontroller	:	Arduino Uno
Crystal	:	16 MHz
LCD	:	16X2 LCD
Finger Print Module	:	Bio-metric Module (R307)
SD Card	:	SPI interface
Buzzer	:	5vDC
Power Source	:	12v 2 amp Adaptor

SOFTWARE:

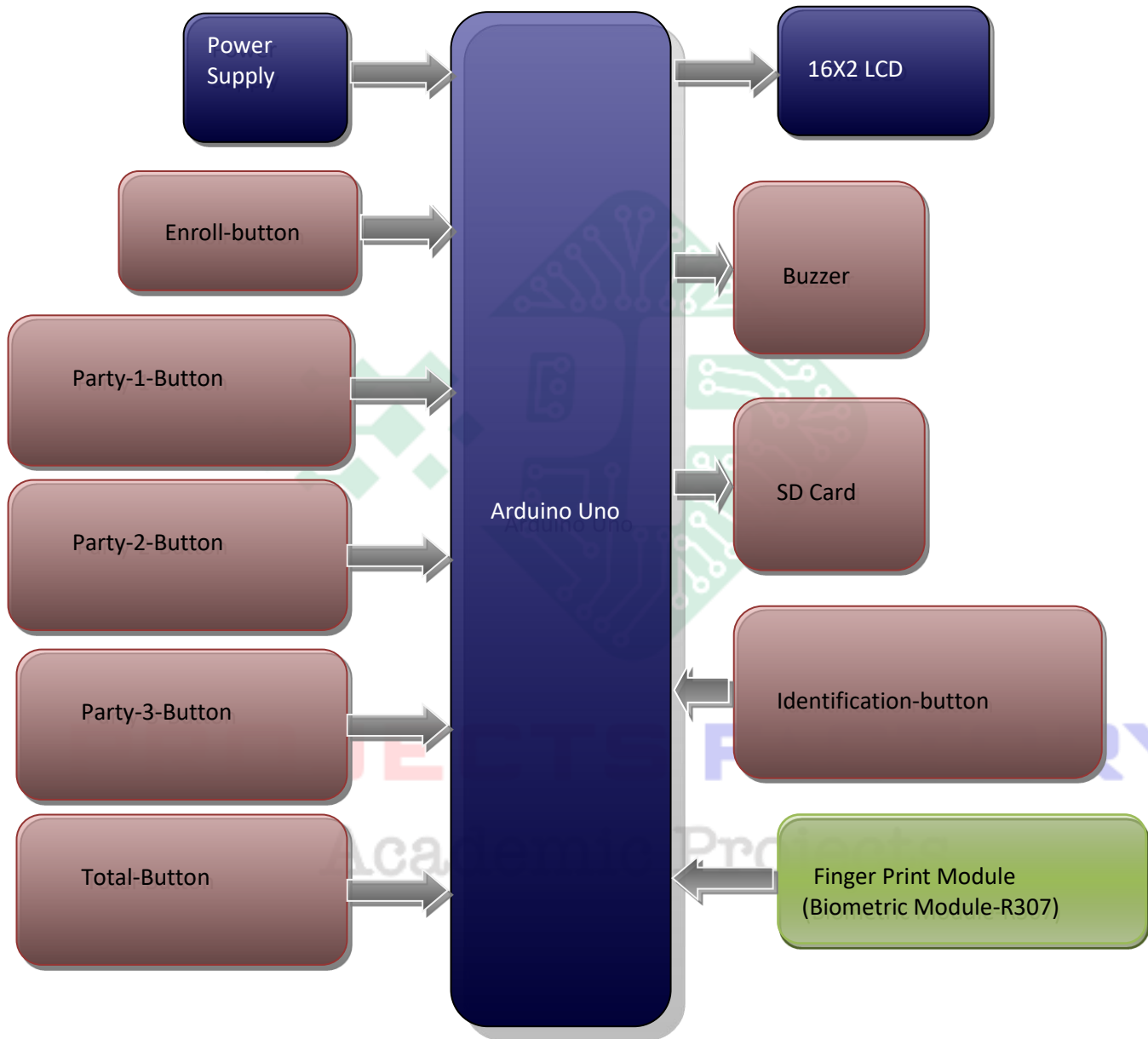
Arduino IDE
Proteus based circuit diagram

APPLICATIONS:

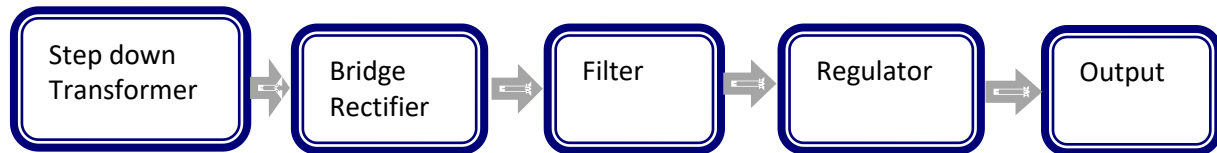
- Voting Applications

PROJECTS FACTORY
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BLOCK DIAGRAM:



POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERED:

- We have covered finger print module (R307-Biometric Module) interfacing
- Buttons and SD card interface

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