FINGER PRINT BASED ELECTRONIC VOTING MACHINE

ABSTRACT

This project examines policy regarding the electronic approaches and developments towards electronic data storage and transmission. Finger print devices for Voting machines and other existing identity documents are discussed and implemented in this project.

The user has to show his voter ID card whenever he goes to the polling booth to poll his vote. This is a time consuming process as the person has to check the voter ID card with the list he has, confirm it as an authorized card and then allow the person to poll his vote. Thus, to avoid this kind of problems, we have designed a finger print based voting machine where the person no need to carry his ID which contains his entire details.

The person at the polling booth has to show his Finger. This Finger print reader reads the details from the tag. This data is passed to the controlling unit for the verification. The controller reads the data from the reader and compares this data with the already existing data. If the data matches with the already stored information, the person is allowed to poll his vote. If not, a message is displayed on LCD and the person is not allowed to poll his vote. The polling mechanism carries out manually using the switches. LCD is used to display the related messages.

The project demands the user to submit his Finger print at the polling booth. The project uses the Finger print technology and Embedded Systems to design this application. The main objective of this project is to design a system that asks the user to show his Finger print as an identity proof. The system reads the data from the Finger print and verifies this data with the already stored data in its database. If the details present in the data base it matches with the stored data, the system allows the person to enter into and poll his vote. If the details of the Finger do not match with the stored data, the system immediately activates the display and the security authorities can come and take the further action.

This project is a device that collects data from the tag and codes the data into a format that can be understood by the controlling section. This system also collects information from the master device and implements commands that are directed by the master.

The objective of the project is to develop a microcontroller based security and alert system. It consists of a Finger print reader, microcontroller, the interfacing unit to allow the communication between the microcontroller and Finger print module, and the LCD.

BLOCK DIAGRAM:

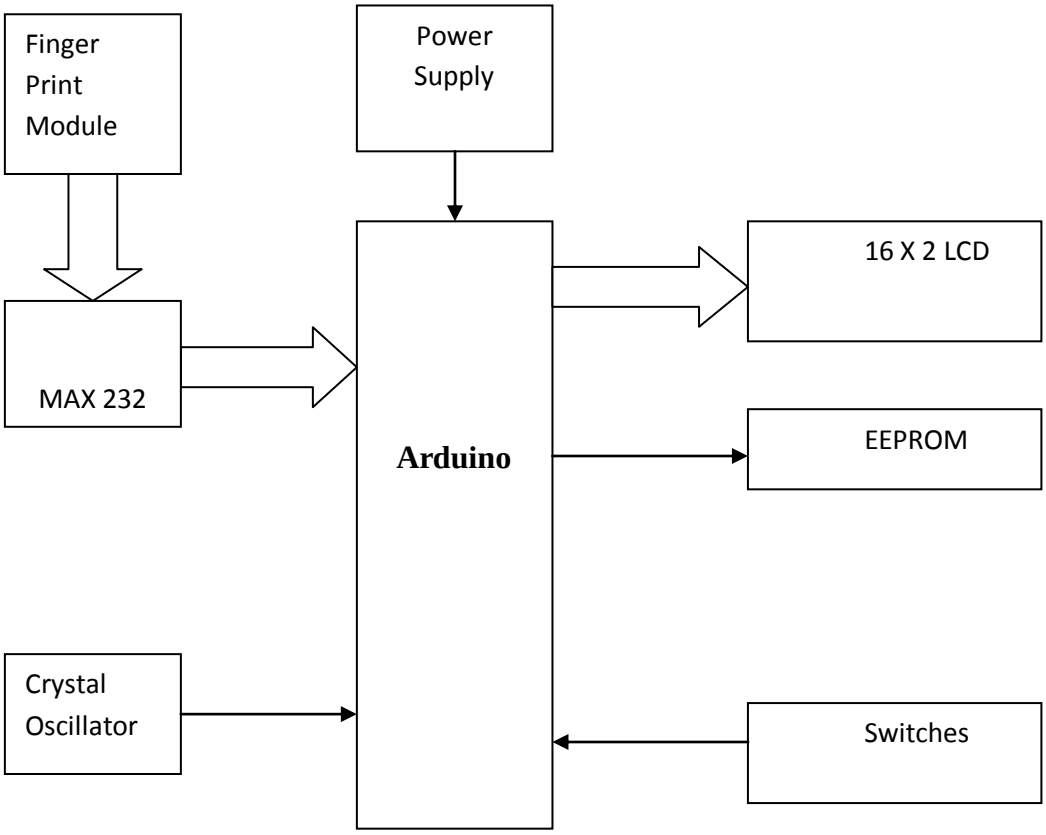

Fig 3.1 : block diagram