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Aadhar based Anywhere Voting System

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Abstract: The main goal of our project is to introduce a brand new legal system that uses fingerprint for verification of an elector with the assistance of Aadhaar card details. Existing ballot paper will be replaced with the Aadhaar card. Our planned system will be accustomed conduct elections at totally different levels like that of the Parliament, panchayat and then on same day which is able to cut back the price of conducting elections on totally different dates. Since ballot will be done from any booth, it'll speed up the ballot method for the voters additionally as government because the result the protection in ballot will be ensured by preventing fault votes. Our system can give a lot of convenient approach for ballot for folks.
Keywords: finger print module, aadhar card details.

I. INTRODUCTION

Elections are the elemental shaping characteristics of any democracy that upholds the terribly which means of a system that's being ruled by the people expressing their decisions or articulate opinions within the variety of choice. The traditional electoral method is all about tallying manually, that is time overwhelming and complex and fault and fraud. Now the choice mechanisms have evolved from leaps and bounds of easy hand-written ballots to on-line selection systems. This style even have the feature of being autonomous throughout the working mode, that helps to eradicate the problems of hacking that happened in cases of ancient selection systems. In this style incorporated the utilization of microcontroller board, a liquid show, a keypad, a push buttons wont to input vote for every party.

The authentication was coupled via the net to Aadhaar card knowledge base that provides distinctive positive identification for each subject . For authentication of citizen a fingerprint sensing element is connected with it. Fingerprint of citizen goes to scan by fingerprint scanner can it send info to machine will fetch the Aadhaar information for explicit fingerprint knowledge. once play acting winning vote for a specific person can become one to eliminate the probabilities of double selection. succeeding person can enable to forged vote.

II. OBJECTIVE

The main aim of this project is to develop secure Electronic voting machine using Finger print identification method, for finger print accessing we use AADHAR card database. At the time of voting in the elections, the voting process authentication can be done using finger vein sensing, which enables the electronic ballot reset for allowing voters to cast their votes. Also the voted data and voter's details can be sent nearby database administration unit by using Wi-Fi system.

III. PROBLEM STATEMENT

A. Existing voting system

While considering the prevailing electoral system in India, we will see that the cost for conducting one election is actually high. The pay for the officers, alternative arrangements can cause this cost. Other issues like pretend vote that square measure being casting on the day of elections is increasing. this can get a negative impact about our elections system. conjointly once associate election conducted we'd like to attend o long for the results while not a good mechanisms. there'll conjointly in a place an excessive amount of paper works needed for associate election to urge with success difficult.

B. Proposed System

In proposed system we are using microcontroller and Aadhaar Database as a backbone of our project for authentication and for checking the eligibility of the voter. In this project, we are using UID number and fingerprint matching that will cut the time required for authentication.
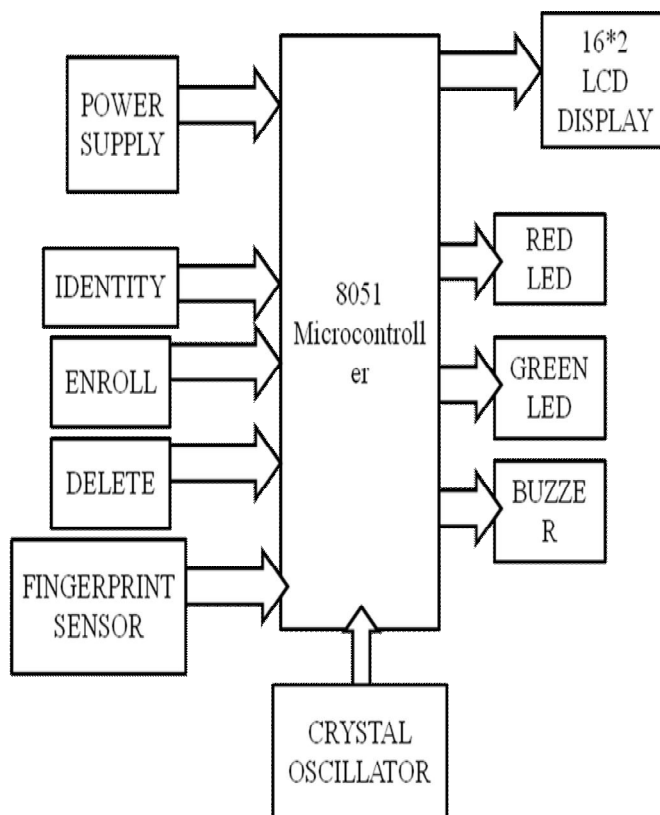
IV. METHODOLOGY

Fig:-block diagram of aadhar based anywhere voting system.

In this project the unwanted humans errors reduced because we are using aadhar card data base as a key point. Then the aadhar details matched with finger vein using finger prints sensor. The finger print sensor senses and the result on lcd screen whether he or she is eligible or not. if the person is eligible then he can cast his vote.

V. HARDWARE REQUIREMENTS

1) *Power Offer:* The facility offer can offer the regulated power offer to the unit that is first regenerate into 12 Volts AC.12V AC is regenerated into DC exploitation rectifier circuit. Finally, the 7805 IC transformer provides constant 5V DC offer that has mentioned within the circuit.

2) *Fingerprint Module:* Finger print optical scanner is AN input module for LPC2148. At the first stage of verification, user have to be compelled to place his correct thumb upon finger print scanner. If that individual fingerprint matches with the info then next step of verification is proceeded. Fingerprint is incredibly safe and convenient device for security rather than watchword that's susceptible to fraud and is difficult to recollect. Biometric method for authentication, identification and verification functions that allow your fingerprints act like digital passwords that cannot be lost, forgotten or taken.

3) *Keypad Matrix:* Key pad are commonly used in calculator, telephone where a number of input switches are required. When the switches are pressed the corresponding rows and columns are connected which will drive the column pin low. Using this logic, the button that is pressed can be detected.

4) *LCD (Liquid Crystal Display):* LCD components are specialized for being used with the microcontroller, which means that they cannot be activated by standard IC circuits. They are used for writing different messages on a miniature LCD. LCD display is an output module which has been controlled by LPC215V.

5) *Buzzer:* A buzzer or pager could be a device, typically electronic, usually employed in cars, house hold appliances like a microwave ovens & game shows. The word "buzzer" comes from the rasping noise that buzzers created after they were mechanical device. The devices operated from stepped down AC line voltage at fifty or sixty cycles. different sounds normally accustomed show that a button has been ironed are a hoop or a beep.

VI. ADVANTAGES AND DISADVANTAGES

A. *Advantages*
1) Empowerment.
2) Accessibility.
3) Fast, accurate results.
4) Preserves voting secrecy due to finger print authentication.
5) It cannot provide any chance to invalid votes.
6) Providing the preventive measures
7) System for voting.
8) Reduces the staff of voting center.

B. *Disadvantages*
1) People must be enrolled with aadhra card.
2) Aadhar based voting website should be accessible at the voting booth.
3) Finger print scanner must be present at the voting centre.

VII. APPLICATIONS

Especially for safe and secure voting using biometric system.
Traditional voting system is replaced by electronic voting system.
This system can be used at various levels of public election in our country.
This system can be used even in the committee board elections.

VIII. RESULTS

The security and complexity of existing method is overcome by proposed method. In existing method biometric model is used so time consumption is more. But in this method time consumption is less. Counting of vote is easy in the proposed method then the existing method. Processing speed and efficiency is high as compared to existing one. It provides easy and accurate counting without any troubles and reduces the staff at voting centre.

IX. ACKNOWLEDGMENT

REFERENCES

[1] Dr. Poongodi.S, Manivel.N, Marakatha kumar.D, Sangeetha.M, Shalini.D, "Implementation of aadhar based voting machine using arduino with GSM.
[2] Dr.S.Kavitha, S.Archana, B.Gayathri, M.Haripriya, S.Hemavikashini "Aadhar based enhancement voting machine using Arduino.
[3] R.Murali Prasad, Polaiah Bojja, Madhu Nakirekanti, "Aadhar based electronic voting machine using Arduino.

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