

Survey Paper On Online Voting System Using Aadhar Card and Biometric

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Abstract: The problem of choice remains important in terms of safety and security. This paper deals with the look and development of a web-based electoral system exploitation fingerprint and aadhar card so as to supply a high performance with high security to the electoral system. Also we have a tendency to use internet technology to create the electoral system a lot of sensible. The planned on-line electoral system permits the voters to scan their fingerprint, that is then matched with associate degree already saved image at intervals a information that's retrieved from aadhar card information of the govt. The electoral system is managed during a easier manner as all the users should login by aadhar card range and only once watchword and click on his/her favourable candidates to forged the vote. This may increase the choice share in India and reduces the value of choice method. By exploitation biometric fingerprint it provides enough security that reduces the false votes.

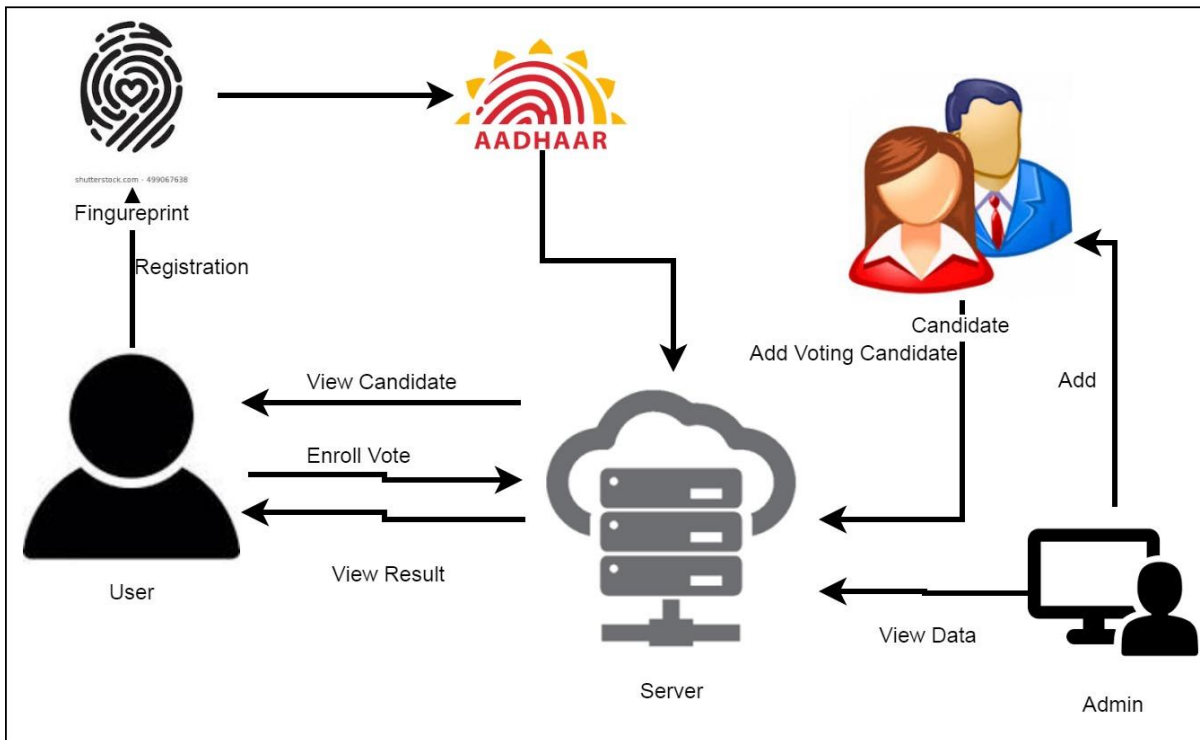
Keywords: Biometric fingerprint, MYSQL, Aadhar Card.

Introduction: Voting schemes have evolved from tally hands in period of time to systems that embody paper, punch card, mechanical lever and optical-scan machines. Associate in Nursing electronic electoral system that is employed these days give some characteristic completely different from the standard ballot technique, and conjointly it provides improved options of electoral system over ancient electoral system like accuracy, convenience, flexibility, privacy, verifiability and quality. however Electronic ballot systems suffers from varied drawbacks like time intense, consumes giant volume of paper work, no direct role for the upper officers, injury of machines thanks to lack of attention, mass update doesn't permits users to update and edit several item at the same time etc.

These drawbacks will overcome by Biometric on-line electoral system. this is often this will be a electoral system by that any elector can use his her ballot rights from anyplace within the country. we offer a close description of the practical and performance characteristics of biometric on-line electoral system. elector will solid their votes from anyplace within the country while not visiting to ballot booths, in extremely secured means. that produces ballot a fearless of violence which will increase the proportion of ballot.

Problem Statement: Online Voting System provides the online registration form for the users before voting and makes the users to cast their vote online. The system is to be developed with high security and user friendly..

Architecture Diagram:



Mathematical Model:

System S as a whole can be defined with the following main components.

$$S = I, V, Ad, V1, Count, O$$

S=System

V=Voter

Ad=admin

V1= Vote

Input I = Input1, Input2

Where,

Input1=Voter

Where,

Count= total count of votes

Output O = Output1, Output2

Where,

O= Total Count

Initial State s = initially system will be in a state where user are not enrolled,

Only admin of system.

Final State e= Voter complete their voting system.

Literature Survey:

Paper 1. An Efficient Online Voting System

Author Name : Ankit Anand, Pallavi Divya

Description:

This paper deals with design, build and test a online voting system that facilitates user (the person who is eligible for voting), candidate (Candidate are the users who are going to stand in elections for their respective party), Election Commission Officer (Election Commission Officer who will verify whether registered user and candidates are authentic or not) to participate in online voting. This online voting system is highly secured, and it's design is very simple, ease of use and also reliable. The proposed software is developed and tested to work on Ethernet and allows online voting. It also creates and manages voting and an election detail as all the users must login by user name and password and click on his favourable candidates to register vote. This will increase

the voting percentage in India. By applying high security it will reduce false votes.

Paper 2. Online Voting System Using Aadhar Card and Biometric

Author Name: Nishigandha, Nikhil, Suman, Vinayak, Prof. Vishal D

Description: The problem of voting is still critical in terms of safety and security. This paper deals with the design and development of a web-based voting system using fingerprint and aadhar card in order to provide a high performance with high security to the voting system. Also we use web technology to make the voting system more practical. The proposed Online Voting System allows the voters to scan their fingerprint, which is then matched with an already saved image within a database that is retrieved from aadhar card database of the government. The voting system is managed in a simpler way as all the users must login by aadhar card number and One Time password and click on his/her favourable candidates to cast the vote. This will increase the voting percentage in India and reduces the cost of voting process. By using biometric fingerprint it provides enough security which reduces the false votes.

Paper 3. Biometrics using Electronic Voting System with Embedded Security

Author Name: Alaguvel.R , Gnanavel.G, Jagadhambal.K

Description: An electronic voting (e-voting) system is a voting system in which the election data is recorded, stored and processed primarily as digital information. There are two types of e-voting: On-Line and Offline. On-line, e.g. via Internet, and offline, by using a voting machine or an electronic polling booth. Authentication of Voters, Security of voting process, Securing voted data are the main challenge of e-voting. This is the reason why designing a secure e-voting system is very important. In many

proposals, the security of the system relies mainly on the black box voting machine. But security of data, privacy of the voters and the accuracy of the vote are also main aspects that have to be taken into consideration while building secure e-voting system. In this project the authenticating voters and polling data security aspects for e-voting systems was discussed. It ensures that vote casting cannot be altered by unauthorized person. The voter authentication in online e-voting process can be done by formal registration through administrators and by entering One time password. In Offline e-voting process authentication can be done using Iris recognition, finger vein sensing which enables the electronic ballot reset for allowing voters to cast their votes. Also the voted data and voters details can be sent to the nearby Database Administration unit in a timely manner using GSM System with cryptography technique.

Paper 4. Online Voting System Powered By Biometric Security Using Steganography

Author Name; Shivendra Katiyar, Kullai Reddy Meka, Ferdous A. Barbhuiya, Sukumar Nandi

Description: Using Cryptography and Steganography at the same time, we try to provide Biometric as well as Password security to voter accounts. The scheme uses images as cover objects for Steganography and as keys for Cryptography. The key image is a Biometric measure, such as a fingerprint image. Proper use of Cryptography greatly reduces the risks in these systems as the hackers have to find both secret key and the template. The basic idea is to merge the secret key with the cover image on the basis of key image. The result of this process produces a stego image which looks quite similar to the cover image but not detectable by human eye. The system targets the authentication requirement of a voting system.

Paper 5. Web-Based Voting System Using Fingerprint: Design and Implementation

Author Name: Firas I. Hazzaa, Seifedine Kadry, Oussama Kassem Zein

Description: The problem of voting is still critical in terms of safety and security. This paper deals with the design and development of a web-based voting system using fingerprint in order to provide a high performance with high security to the voting system also we use web technology to make the voting system more practical. The new design is proposed an election for a university for selecting the president of the university. The proposed EVS allows the voters to scan their fingerprint, which is then matched with an already saved image within a database. The software is implemented completely as a .net managed code. Upon completion of voter identification, voters are allowed to cast their vote using voting website. Casted vote will be updated immediately. The result shows that the proposed electronic voting system is fast, efficient and fraud-free.

It gives us great pleasure in presenting the preliminary project report on **Survey Paper On Online Voting System Using Aadhar Card and Biometric**.

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Conclusion:

This voting system helps everybody to cast their votes without any problem. Online voting will increase the percentage of voting. Manual counting is not required. So by this we will get the very prominent, clear and fast result. It's a great challenge for us to use Java language for the development of our project. By using this newly developed system we can overcome many problems of existing system. This system is more efficient than the existing one. The completion of this project we are providing the Online Voting system using web application.

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