

Online Voting System (OVS)

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Abstract: Developing an online voting system by making the advantage of a centralized database with web interface. The main concept of this project to build website, which should be able to allow people to cast their vote by online. This is simple, safe and secure methods that take minimum of time. Integrity of the result is guaranteed; preventing chance of false voting (i.e. highly secured & corruption proof voting and by making use of biometric like fingerprint and face recognition).

Keywords: Voting, Voters, Candidates, Registration, Login

I. INTRODUCTION

“ONLINE VOTING SYSTEM” is an online voting technique. In this system people who are citizen of our country and their age is above 18 year and of any gender can cast his/her vote online without giving visit to any physical polling station. In “ONLINE VOTING SYSTEM” a voter can use his/her voting right online without any threat.

He/She has to be registered first for him/ her to vote manually registration is mainly done by the system administrator for identification of voter and also for security reasons. After registration, the voter has assigned a secret Login ID and password with which he/she can use to log into system and can easily explore the services provided by the system such as voting, result, etc. If invalid/wrong details are submitted, then voter is not registered to vote.

II. SYSTEM ARCHITECTURE

The Online Voting System is a Software application which helps to save more manual processing time which was taken by coordinators to calculate manually votes.

By making use of this software application user can easily register himself/herself online. And the registered information is safely kept in the Database instead of making documentation of user’s information.

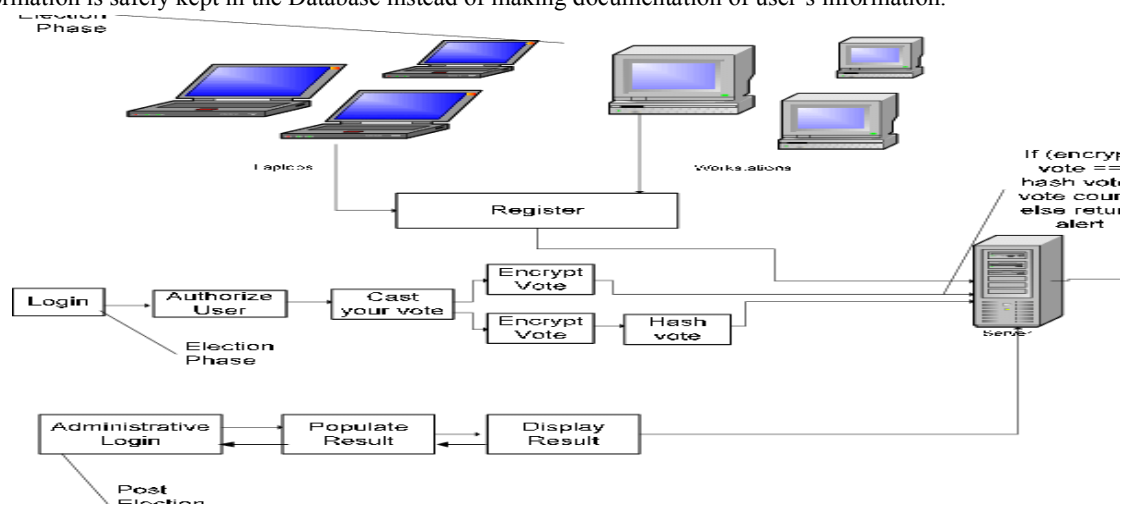


Fig. 1. Structure of Online voting system

So Users/Voters can easily cast their votes through online mode. Duplication of casting votes is avoided as users or voter only once can cast their vote according to the rules and regulation of election commission.

III. METHODOLOGY

As Database is stored in the system so the system becomes most confident so Admin and voters can easily access data from it. Most important constraint in this is we can easily calculate the votes through the database.

In this system splash screen will be added like other mobile application and sign up/registration page will be appear in such a way that if you have an account then you can redirect on login page.

In registration/signup you have to add your profile picture and all credential information and fingerprint.

While login user will need to give username, userid and password which is given by him and fingerprint also if fingerprint sensor is not available in device then he/she can use OTP method on registered mobile number.

After successful login voter can cast his/her vote to candidate from any department/Organisation after providing the password and facial recognition then only casting of vote to candidate is done by voter.

And Result is displayed on the Candidate login and voter login also after voting period or after certain time span

IV. LITERATURE REVIEW

To make the voting process very easy and efficient wireless and web technologies are used. The Voter has to manually register into voter list. Also Vote counting has to be done manually register. Also Vote counting has to be done manually. All the information of the voters or candidate is to be filling in manually. As there are Electronic Voting Machine (EVM) used which makes more cost. Some of the system used before and currently are being used:

Paper – Based Voting(PBV)

Electronic Voting Machine(EVM)

Punch card



V. CONCLUSION

Online Voting Systems have many advantages over the older voting system. Some of these benefits of these systems are less cost, faster results generation, easier accessibility, more accuracy, and less risk/chances of human made errors. It is very difficult to develop Online Voting System(OVS) which makes the security at high level. Future improvement or next version is focused to design a system which can be easy to use and will provide security and privacy of votes for proper verification of user's and candidates. It is easier to make or cast vote.

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