

How Modern Technology is Revolutionising our Traditional Voting System

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Abstract: In earlier times, citizens went to polling places took the blank ballots, then punch a hole or append the seal. If the seal is not clear anyhow the vote is damaged by soiling, it may bring some debate in the result. In order the voting/polling system seeks to deal with the above issues. It should be noted that with this system in place, the users, citizens in this case shall be given abundant time in the voting period, the technology of electronic voting (E-Voting) comes into existence. By using IT (information technology) E-voting system can cast and count votes with elevated convenience and efficiency, even make the electoral procedures effortless and lessen the inaccuracy rate of ballot examination. This is a time-consuming process and extremely prone to errors. This situation which sustained till election scene was entirely changed by EVM (Electronic Voting Machine). No more poll paper, poll boxes, stamping, etc. all this condensed into box called ballot unit of the E-voting machine.

Because biometric identifiers cannot be easily lost, bogus, or shared, they are considered more credible for person recognition than conventional token or knowledge based methods. So the Electronic voting system has to be enhanced based on the existing technologies viz., biometric system. This paper purpose a secure E-Voting System that provides enhanced security by implementing fingerprint recognition ,one time password, technique, face detection, retina recognition. The E-Voting system using Biometric enable a voter to cast his vote through internet without going to a polling place

Key Words : Tradional Voting Process, E-voting machine, E-Democracies.

Introduction:

Electronic voting in polling stations is in place of the world's largest E-Democracies, and I-voting is used in some, initially small and E-Historically conflict-free, countries. Many countries were currently considering Introducing E-Voting systems with the goal of improving various aspects of the Electoral process. E-voting is often seen as a tool for advance democracy, building faith in electoral management, adding credibility to election results and increasing the exhaustive efficiency of the electoral process. The technology is evolving fast and election managers, observers, IO (international organizations), vendors and standardization bodies are consecutively updating their methodologies and approaches. The main reason why E-Voting has gained such success in this country is just because of convenience in this voting system as comparison to other traditional voting system. To increasing participation of more and more people in the polls we required Hi-Tech. voting techniques which will enhance and strength this democracy process. E-Voting technology can speed the counting of ballots & can extend improved the advantage for incapacitate(disable) voters The one most important benefit using E-voting is that it will increase overall turnout because the voters can vote from any place either he/she is in the state or out of the state. 'Kenya' is a country who has already implemented the E-voting system and gained very much success .In this system people who have citizen of Kenya and whose 18 years of age and any sex can give his/her vote online without going to the polling station.



VOTING IS A CIVIC SACRAMENT:

The voting through internet is known E-Voting system. In the voting system election data is recorded, stored, and processed in the form of DI (Digital Information). Everything is automated in this technique either it is a registration process, vote casting, counting or poll generation. It involves the act of voting using E-SYSTEM (Electronic System) to cast and count votes.

WHY WE NEED E-VOTING SYSTEM ?

BE BRIGHT,

VOTE FOR WHAT IS RIGHT

- Allow voters to vote from any polling site in the country without the use of absentee ballots and providing ballots in multiple language
- The cost of printing, man power is also decreased with the help of E-Voting.
- The quick tallying of votes with the help of E-voting will give result about 2-3 hours instead of 30-40 hours. Transportation and Storage cost also decreases with the help of E-Voting.
- Increased participation in democratic governance as more citizen have access to express their opinion
- Increase voter confidence and improves the voting experience.

These requirements include: confidentiality, justive, authentication and non-desertion

1. **Fairness:** No person can learn the voting outcomes before the tally.
2. **Eligibility:** Only eligible voters are allowed to cast their vote.
3. **Uniqueness:** No voter is allowed to cast their vote more than once.
4. **Privacy:** No person can access the information about the voters vote.
5. **Accuracy:** All the valid votes should be counted correctly.
6. **Efficiency:** The counting of votes can be performed.

Traditional Voting Process

- Inefficient.
 - Takes Time and Human Resources.
 - Does Not Give An Instant Poll Result.
 - Hard To Track Who Voted And Who Don't
- ✓ **Authentication:** In this phase, voter authentication himself/herself by showing his or her voting card, this step is public and verified by presiding officers. At the end of authentication process, presiding officers gives a ballot paper to voter to cast his or her vote.
 - ✓ **Vote:** The vote takes a protected booth where voter cannot be seen by any person. The voters cast their vote by writing it with a pen on the paper ballot paper and put the ballots box where all the votes are mixed.
 - ✓ **Vote counting:** At the end of voting time, the presiding officers collect the ballot box containing all the ballot papers and submit it to the counting centre. After that with the help of member of the election committee nominated by selection commission of INDIA, the ballot boxes are opened and votes are counted and the result are the result are then announced
 - ✓ **Verification:** Various types of verification process are used most procedures are public and verified by the representative of candidate of computing parties .Record is also possible if there is any fraud or error.



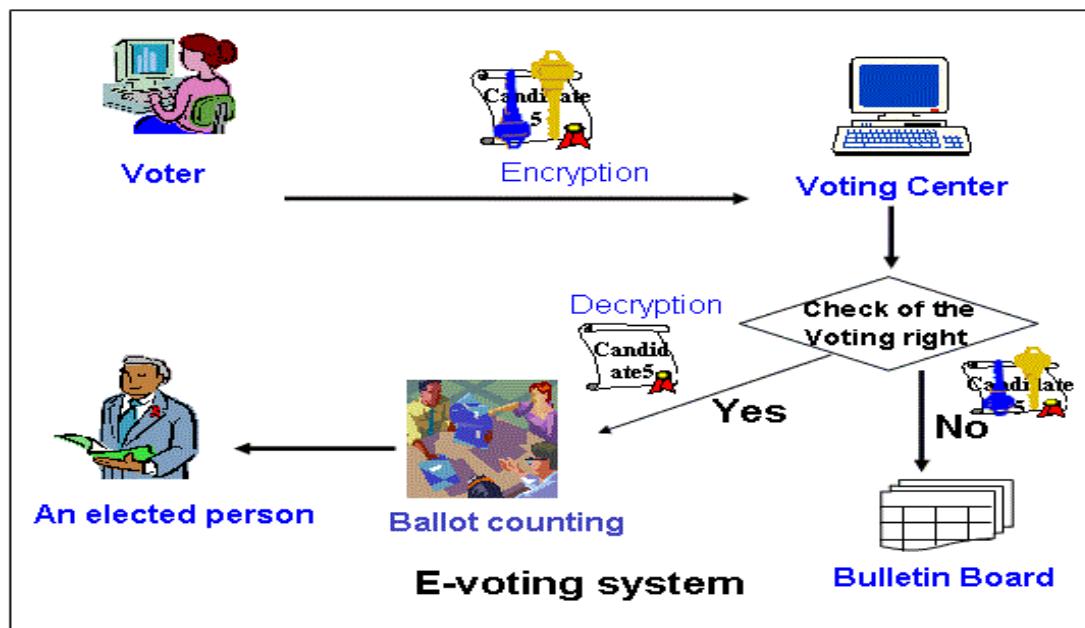
Existing Voting System in India:

Paper –based voting system where vote are cast and counted by hand using paper ballot. With the invention of ET (Electronic Tabulation), the election procedure of counting votes, make sense and digital pen voting system. Most recently these systems can include an (EBM) Electronic Ballot Maker allows voters to make their selection using E-Input and touch screen system similar to a DRE.

E-Voting technology can speed the counting of ballots, reducing the cost of paying staff to count the votes manually and can provide improved accessibility for disabled voters.



- ✓ **E-Voting :** E-Voting refers to any system where a voter casts his or her ballot using an electronic system, rather than a paper
- ✓ **E-Vote Counting:** E-Vote counting refers to the system that is used to tabulator ballots and awarded seats it would be possible to vote using a non-electronic medium and then convert these votes to an electronic voting machine to a counting system. EVM is a simple electronic device used to record votes in places of ballot papers and boxes which were used earlier conventional voting system.
- ✓ **Voting through SMS:** This system finds very much scope in the reality shows .As this system can be modified according to the needs of the particular show, the system can be made Function to a specific events in this type of voting system predefined format with candidate name to a given phone number. The candidate with the highest supporting message is declared as a winner .usually in reality shows this type of voting system is used.
- ✓ **Daily New Post:** The system can be used for the daily online news pools carried out by the number of national newspaper and news channels eg. TIME OF INDIA, HINDUSTAN TIMES, STAR NEWS AND ZEE NEWS etc .Security is not main requirement of this system as it is done for analysis purpose only. The voting is done on social or other important topics .Any one can cast his/or her vote this system irrespectively of age.

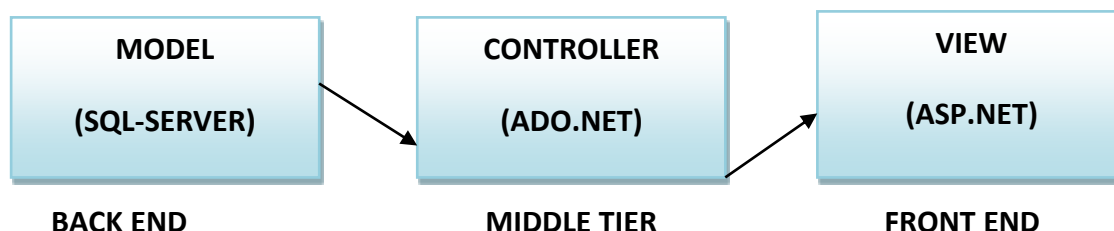


Technological requirement:

MICROSOFT .NET FRAMEWORK	2.0,3.0,3.5
LANGUAGE	C#,ASP.NET , JAVA SCRIPT
WEB TECHNOLOGY	ASP.NET 2.0,3.5
DATABASE	SQL SERVER 2005/2008
OPERATING SYSTEM	WINDOW 7
TOOLS	MICROSOFT VISUAL STUDIO2010

SYSTEM ANALYSIS:

MVC (MODEL VIEW CONTROLLER)



Conclusion:

In a nutshell the new techniques are authentication techniques. As day by day the population is increasing which in turns demands the improvements in the voting system. Using this new technique we can make voting system attractive as well as it will increase the rate of voting percentage E-Voting system that can save us time and cost too. We conclude that the E - voting system that can serve as a revision tool in Real Time that will facilitate the voters to vote efficiently and effortlessly.

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