



iJRASET

International Journal For Research in
Applied Science and Engineering Technology



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 7 Issue: V Month of publication: May 2019

DOI: <https://doi.org/10.22214/ijraset.2019.5421>

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The Suffrage-326, The People's Right to Vote

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Abstract: *This paper deals with the e-voting system that facilities voter to vote from their residential places through an open source website. Online voting – or e-voting (electronic voting) – makes use of Internet in order to cast a democratic vote. To achieve this, a discussion was held on which requirements should be put on such a voting system. By using these requirements an analysis is performed on the possible design choices that have to be made, like decisions concerning transportation of data, verification of data and authentication of voters. The design primarily focuses on giving voters the possibility to verify his or her vote and to reduce the dependency. This also facilities absentee voting. Absentee voting refers to registered voters who cannot make it to the polls on Election Day because of occupation, business, studies, travel, imprisonment, illness, disability and hospitalization or resident in a long term care facility, elderly users. The main purpose of this paper is to automate the existing manual election system which uses ballot papers, EVM's, etc with help of computerized equipments which eliminates human interference. At the end of this paper, we conclude that the aforementioned type of voting system addresses many of the biggest problems with today's voting system and ensures high security.*

Keywords: *Electronic vote, Authentication, Absentee voting.*

I. INTRODUCTION

The one sure way to prove being a citizen of a country is to take part in the election process held in the nation and cast your vote. Elections is not only about winning or losing but strengthening the country. So we work with election management bodies to make voting mode accessible to everyone all around the nation, to speed up election results, to enfranchise votes and to streamline logistics and operations.

A. Manual Vs Automated

Technology has changed the world to that point that one of the largest differences between the old manual voting system and the new automated election system (AES) is apparent to the voter.

Precisely, one polling precinct had approximately 200 voters. The voter that proceeds to his precinct and the board of election inspectors (BEI) /teachers will look for his/her name or look of voters and verify his/her photography, specific signature against the voters registration record (VRR). When it is determined that he indeed is a registered voter of precinct he will be given a ballot. The voter had to write down the names of their elected candidates. Election management system, as described above, can lead to many manual errors. It is time consuming. The purpose of “*THESUFFRAGE*” is to develop an error free, secure, reliable and fast management system. This automated system makes use of computerized equipments to store the data for a longer period with easy accessing. It is manipulation of the same. It doesn't make use of ballots rather the voter is asked to enter his voter id, he/she is verified by an automated OTP generator. Also there are various ways through which counting process can be done rather than making use of ballots to count.

B. Idea of Suffrage-326

The scope of Suffrage is to provide the management framework to support the planning, execution, monitoring and output assessment of all the activities outlined within an electoral cycle. This project aims to increase integrity in the democratic process by offering users-entered technologies with usability. This project only focuses on the MLC elections where the voter is given the choice of opting their candidates as first preference, second reference and third preference. For all voters, poll workers and election administrators. Whether it is identify management, voter databases, precinct level scanner, results consolidation and transmission, we try to provide solutions including security and transparency measures optimizing every one of the processes that compromise an election. The main purpose of this study is to boost the turn-out of votes. For this purpose we have to view all the aspects responsible for low turn-out. Some people hesitate to vote due to weather conditions in different areas during the election, youngsters of age group 18 – 24 having no charm to cast the vote. People who are outside of their town/city don't want to come to their area for just casting the votes due to the expenses and trouble of transportation. Same situation is also for those who are on duty during the election, they don't have any interest to cast their vote during job or they don't have facility to submit their vote.

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III. LITERATURE SURVEY

The paper[1], the authors Himanshu Agarwal and G.N.Pandey proposed aadhar id based online voting system for Indian election. The proposed model has a greater security in the sense that voter high security password is confirmed before the vote is accepted in the main database of Election Commission of India.

The paper [2], the author Firas I. Hazzaa, SeifedineKadr proposed, 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. This system has provided an efficient way to cast votes, free of fraud, and make the system more trustable, economic and fast.

The paper [3], the author Pashine, ninave and kelapure proposed an android platform for online voting system. This application provide diversion of long process also provide security to the voter and its voter comfort system voter no need to go polling booth easily vote for candidate in hometown itself. And also provide the option of gesture recognition but authentication is the problem of android platform.

IV. RESULT

Formerly, the voter has to check in to our website wherein he is asked to login. The voter has to login using his voter ID as well as aadhar number. The voter is verified, if he is a valid voter he is directed to the next page. Else, he has to re-login.

After logging in as a valid voter, he has to go through the process of voter verification. Voter verification is done by generating a 4-digit One Time Password(OTP) to the voter's mobile. The voter is verified once he re-enters the received OTP. After verification, he is directed to the next page where he is allowed to choose his candidate. Else, he has to re-enter the OTP. During this process, the OTP is valid only for the duration of 5 minutes

A. Screen Shots

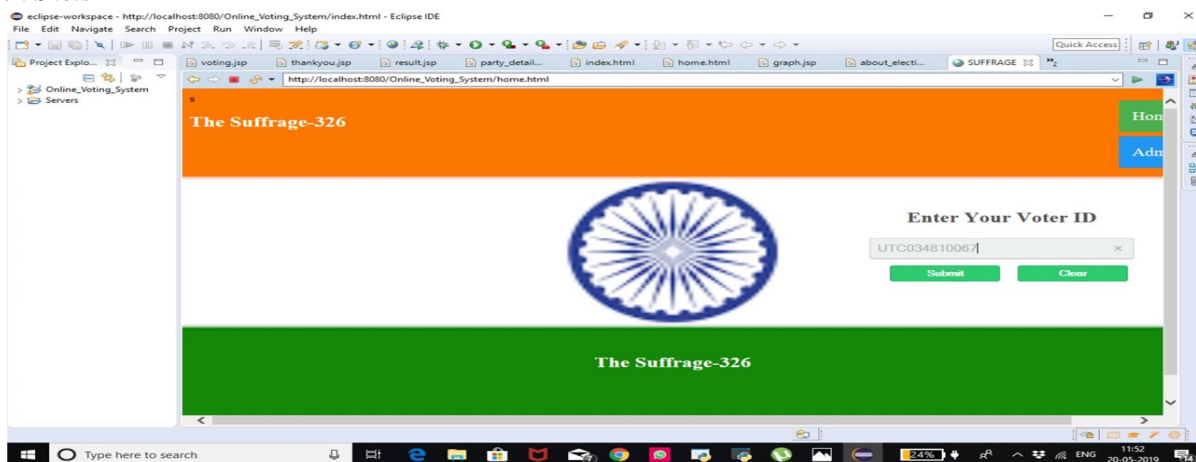


Fig 1: Snapshot 1

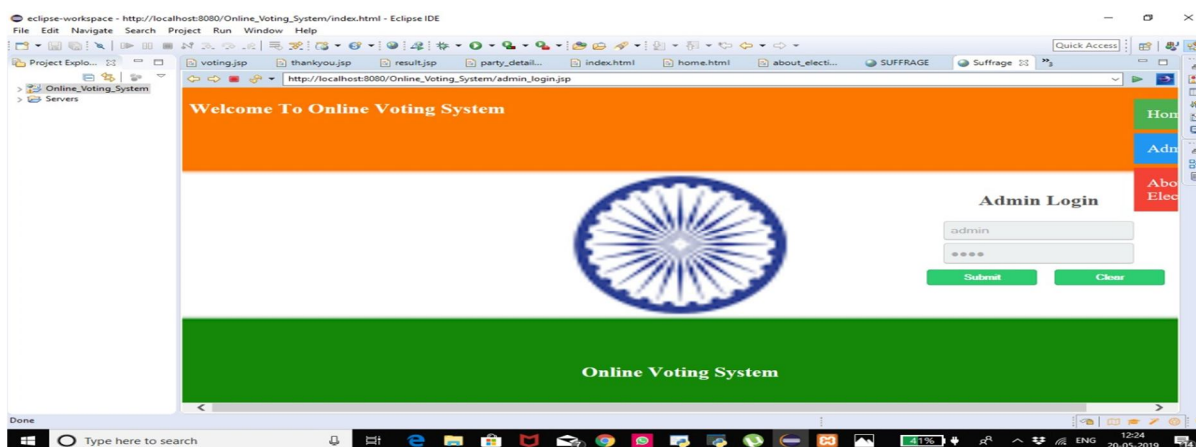


Fig 2: Snapshot 2

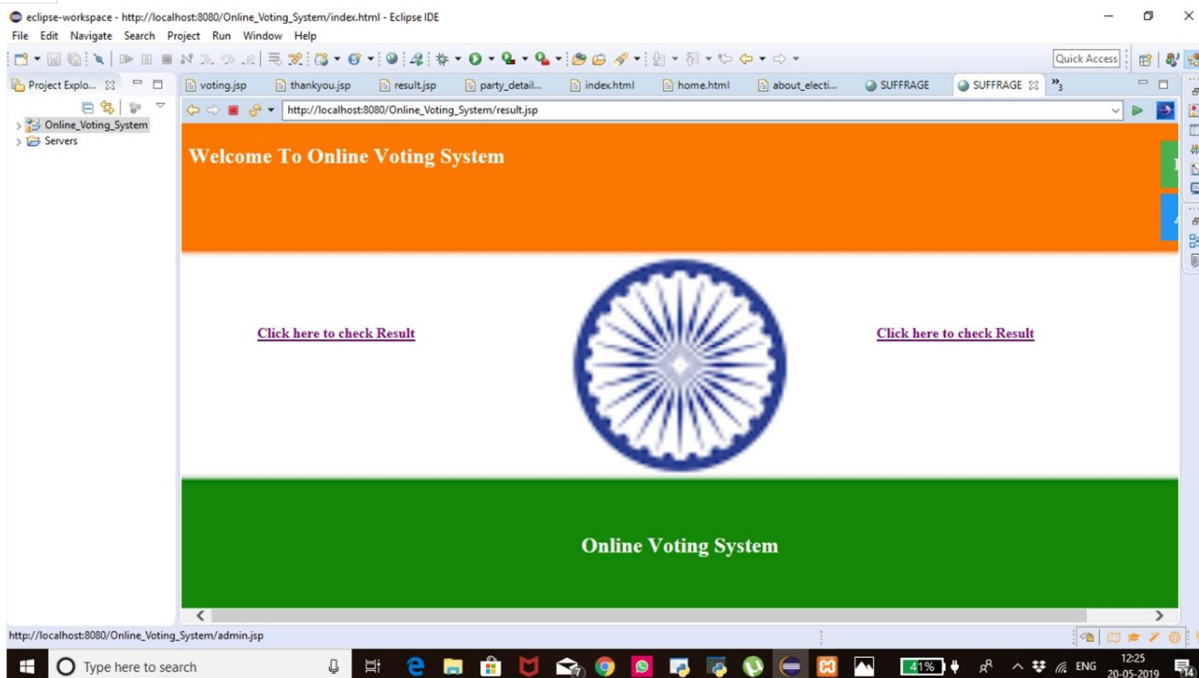


Fig 3: Snapshot 3

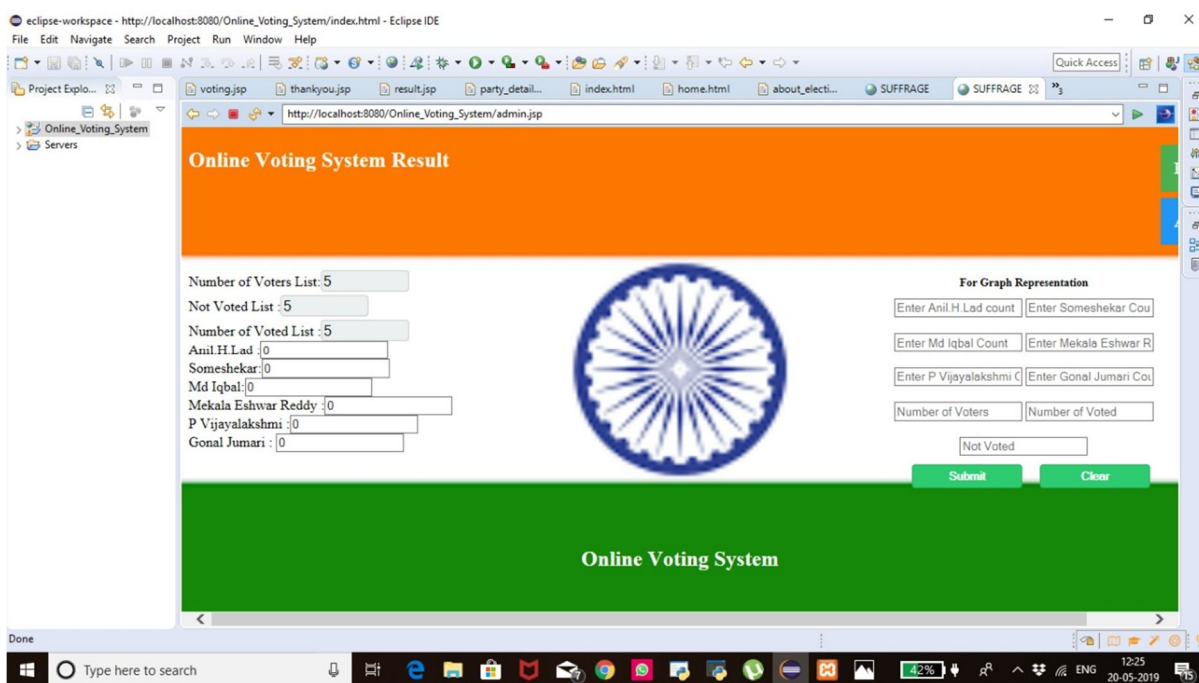


Fig 4: Snapshot 4

Once the voter is logged in and verified successfully, he is directed to the page where he is displayed the list of candidates who are nominated in the MLC election process. The voter has the choice of choosing the candidates according to their preferences. The time given to voter for this process of choosing candidates is only 1 minute. The page automatically closes once the session time is out. Once, he has casted his vote to the candidate of his choice, he is done with responsibility of voting and hence receives a message to his mobile telling Thank You for casting your vote. After the entire process of election is completed within the specified time, the admin logs into the election website and displays the result of the held MLC election process.



B. Advantages

- 1) Voters have the opportunity to vote quickly and conveniently.
- 2) The system can be used independent of the platform and device, be it on a smartphone, tablet or computer.
- 3) People with disabilities can vote or take part in elections online without the help of a third party
- 4) Clear user guidance prevents formal errors such as illegible answers, missing signatures, incorrectly completed forms or invalid lists in the voting and election process.
- 5) Voters receive confirmation that their vote has been correctly cast and saved in the ballot box.
- 6) Votes can be counted quickly and precisely.
- 7) E-voting is secure: votes are only transmitted and saved in encrypted and anonymized form. Sophisticated algorithms prevent votes from being manipulated without being detected.

V. CONCLUSION

On implementing this paper, an user friendly and secure online voting system comes into an existence. This paper is based on online Aadhaar voting system. This is done by verifying the voter/candidate with his voter id and Aadhaar number and later on it securely keeps track of all of the votes casted by the candidates and finally the result of the election. It overcomes most of the voter has to go particular ward and cast his vote. All of this is time consuming. Implementation of this paper will have huge advantages over manual system such as time factor, reducing the paper work, quick announcement of results, flexible to cast vote from any distinct places and many more. Thus, this secure online voting system is hugely helpful in many ways and quite easier for the candidates to cast their valuable votes.

REFERENCES

- [1] SrivatsanSridharan , “ Implementation of Authenticated and Secure Online Voting System”, 4th ICCCNT 2013, Tiruchengode, India No.6, July 2013. IEEE – 31661.
- [2] Divya G Nair, Binu. V.P, G. Santhosh Kumar,” An Improved E-voting scheme using Secret Sharing based Secure Multi-party Computation”, arXiv: 1502.07469v1 [cs.CR] 26 Feb 2015.
- [3] Prof. S.M. Jambhulkar, Prof. Jagdish B. Chakole, Prof. Praful. R. Pardhi “A Secure Approach for Web Based Internet Voting System using Multiple Encryption”, 2014 International Conference on Electronic Systems, Signal Processing and Computing Technologies,2014.
- [4] Pranay R. Pashine, Dhiraj P. Ninave, Mahendra R. Kelapure, Sushil L. Raut, Rahul S. Rangari, Kamal O. Hajari,” A Remotely Secure E-Voting and Social Governance System Using Android Platform”, International Journal of Engineering Trends and Technology (IJETT) – Volume 9 Number 13 - Mar 2014 [5] Ms. Ashwini Walake, Prof. Ms. Pallavi Chavan,” Efficient Voting system with (2,2) Secret Sharing Based Authentication”, (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 6 (1) , 2015, 410-412.
- [5] Firas I. Hazzaa, SeifedineKadry, Oussama Kassem Zein,“Web-Based Voting System Using Fingerprin Design and Implementation”,International Journal of Computer Applications In Engineering Sciences ISSN: 2231-4946.
- [6] ShivendraKatiyar, Kullai Reddy Meka, Ferdous A.Barbhuiya, Sukumar Nandi, ” Online Voting System Powered By Biometric Security Using Steganography” Second International Conference on Emerging Applications of Information Technology, 2011.



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