ONLINE VOTING SYSTEM

[1]Sherry Verma, [2]Priyanka Tyagi, [3]Assistant Professor Avinash Kumar Sharma

Department of CSE, ABES Institute of Technology

Abstract- Online voting provide freedom of voting from anywhere and anytime. This paper deals with the online system that will provide a very secure internet voting. The users will get time to register themselves before voting (through registration), on the voting day the users can vote by choosing their favorite candidate through logging into the software by entering their specific details. Security is the biggest issue in online voting system so, it is resolved by generating the OTP. OTP will be generated as soon as the user will login to cast their vote. OTP will be send only to the registered e-mail id that is given by the user in the registration process. This will make voting very secure & easy. This will allow for easy maintenance of records with the help of database. This will make voting a healthy process for those who are unable to go to the polling booths for voting like senior citizens, disabled people, and will reduce false votes.

Keyword-
OTP (One Time Password)

I. INTRODUCTION

Earlier in India the voting was done at the polling booths with the help of stamp and paper. With the advancement of technology the EVM machines were introduced "click and vote" in which the voter just clicks the button and the voting was done. The present system of casting votes has resulted in number of problems like low percentage of voting, late results, discomfort to old aged and handicap people. Online voting system is done admissions in reputed varsity. Now, here we enlist the proven steps to publish the research paper in a journal.

2. LITERATURE REVIEW

This is a software that can be used by people to vote in an election. All the users must login and click on the desired candidates to register his vote. The development and testing is done on Ethernet. While online voting system has been an active area of research in recent years, the use of insecure Internet, well documented cases of incorrect implementations have been reported recently.

Voter can use his/her voting rights from anywhere in country. Online voting system contains:

a) Voter's information in database.

b) Voter's Names with ID and password.

c) Voter's vote in a database.

Product Perspective - The product is an election conducting tool with a simple GUI (Graphical User Interface). The product isdeveloped using Java. Though the product is stand-alone, it requires Java Virtual Machine (JVM).

User Characteristics - Users are considered to be technically novices but are expected to be able to understand and use the site for voting to the candidate they prefer.

Constraints- Login and password are used for identification of Voter.

Online with the help of a website from anywhere and at any time. It provides improved features of voting system over traditional voting system such as accuracy, convenience, flexibility, reliability, privacy, verifiability and mobility. But it suffers from various drawbacks such as it is a time consuming process, it consumes large volume of pare work. But it will increase the performance of the system. This will reduce number of voters in polling booths, will provide safe and secure voting. In this project user first has to fill all necessary details including voter id and then she/he will be able to login(using the login page) without registration login is not possible, then the user or the candidate will be able to vote his/her favorite candidate. In this process as soon as the user will login, an OTP will be generated on the provided user's e-mail id and only one user will be able to access it. Later the results will be shown to all the users on the site. This will provide provision of improved voting services to the voters through fast, timely and convenient voting.

1.1 PROBLEM BACKGROUND

Voting is the most important part for any democratic country. Voting online is the advancement in the field of voting but have certain loop holes. These can be overcome through the security, flexibility, accuracy and mobility. The use of insecure Internet, well documented cases of incorrect implementations and the resulting security Breaches have been reported recently, these challenges and concerns have to be resolved in order to create public trust in online voting.

3. SALIENT FEATURES

All the information in the site which has been entered are stored in database for each page in the website have its own database table.

3.1. Registration page: User has to fill this page with all the necessary details. User has to provide all the correct details, without this user will be unable to move to the further step and vote.

3.2. Party: This will show the list of the parties taking part in election process.

3.3. Election schedule: This feature will help the user to know about the number of seats of the parties and the date of election.

3.4. Login: After registration user with login with the e-mail id and then the OTP will be generated which will help user to vote.

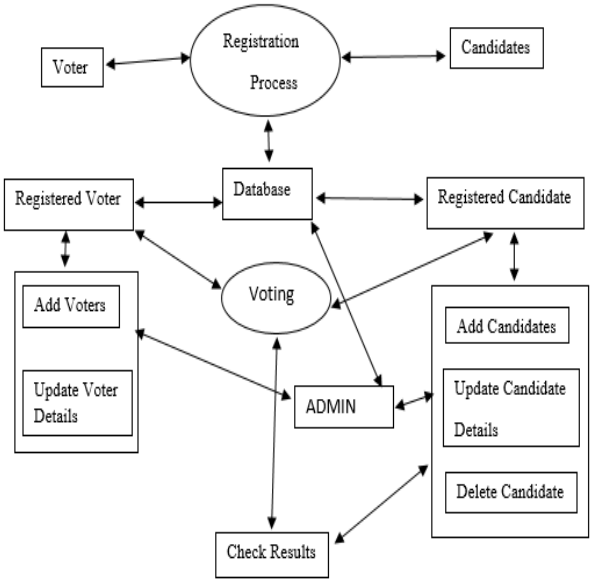
We create this software application with following resources

Front end: - JAVA

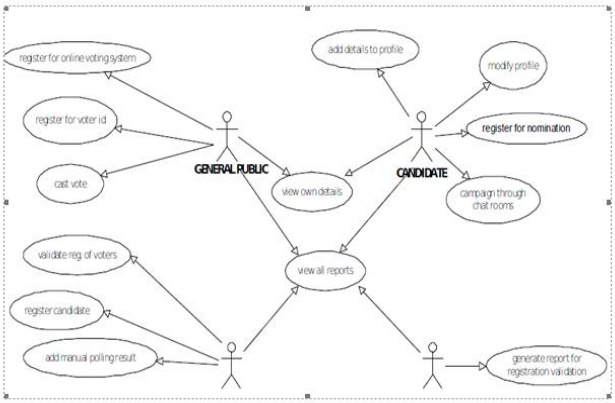
Back end: - ORACLE/MYSQL

Design: - HTML, CSS (Cascading Style Sheet), JavaScript.

Net Beans IDE 8.2- The Net Beans IDE is an award-winning integrated development environment available for Windows, Mac, Linux, and Solaris. The Net Beans project consists of an open-source IDE and an application platform that enable developers to rapidly create web, enterprise, desktop, and mobile applications using the Java platform, as well as PHP, JavaScript and Ajax, Groovy and Grails, and C/C++.



Flow Diagram



Block diagram

4. CONCLUSION

This system will preclude the illegal practices like rigging. Thus, the citizenscan be sure that they can alone choose their leaders, thus exercising their right in the democracy. The usage of online voting has the capability to reduce or remove the unwanted human errors. In addition to its reliability, online voting can handle multiple modalities, and can provide a better scalability for large elections. Online voting is also an excellent mechanism that does not require any geographical proximity of the voters. For example, soldiers abroad can participate in elections by voting online. Hence, by this the voting percentage will increase drastically. As a future work, multi-biometrics measure can also be used to implement and enhance online voting system.

REFERENCES

1. IJCSC Volume 5 • Number 1 March-Sep 2014 pp.29-32 ISSN-0973-7391
Study on Security of Online Voting System Using Biometrics and Steganography.
2. Indian Journal of Science and Technology-Highly Secured Online Voting System over Network by K. P. Kaliyamurthie, R. Udayakumar, D. Parameswari and S. N. Mugunthan.
3. International Journal of Modern Engineering Research (IJMER)- An Efficient Online Voting System by AnkitAnand and pallaviDivya.
4. https://jhalderm.com/pub/papers/ivoting
5. https://uu.diva-portal.org/smash/get/diva

AUTHORS

First Author – Sherry Verma, Student, ABES Institute of Technology Ghaziabad, sherryverma96@gmail.com
Second Author – Priyanka Tyagi, Student, ABES Institute of Technology Ghaziabad, priyankatyagi258@gmail.com
Third Author – Avinash Kumar Sharma, Assistant Professor, ABES Institute of Technology Ghaziabad, avinash.sharma@abesit.in