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A STUDY ON ONLINE VOTING SYSTEM

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ABSTRACT: *The project entitled “A STUDY ON ONLINE VOTING SYSTEM” aims at making the voting process easy in private environment. Presently voting is performed using ballot paper and the counting is performed by the persons, hence it consumes a lot of time. There can be possibility of invalid votes. All these make election a tedious task. In our proposed system voting and counting is done with the help of computer. It saves time, avoid error in counting and there will be no invalid votes. It makes the election process easy. This project is a cyber-voting technique. In this system, the voters who are pursuing in this private sectors and the age is above 18 years of any gender can vote for the deserving candidate through online without going to polling booth. The voters can vote without any difficulty.*

KEYWORDS: *Voting, Invalid Votes, Paper works, Cyber Voting Technique, Election Process, Calculation of Percentage*

1. INTRODUCTION

This project is a cyber-voting technique. In this system, the voters who are pursuing in this private sectors and the age is above 18 years of any gender can vote for the deserving candidate through online without going to polling booth. The voters can vote without any difficulty. The voter's wants to fill a registration form and the administrator will gives rights for voting process. Once the permission is granted the user can login using their own username and password. After enter their username and password verification code will generate and send to their mail id, user's must enter their verification code to login. Then only user's can vote for favourite candidate. The voting process is carried only at the particular date. The administrator can view the voting percentage and the candidate who possesses highest voting is awarded as the winning candidate.

2. MODULE DESCRIPTION

2.1. Registration

In this module the voter's has to do the registration for performing the voting process through online. Once the registration is completed, the admin approves the voter's for voting process. So the user can login and vote for the favorite candidate. The user registration is performed for security purpose. Without registration the user cannot perform the voting process.

2.2. Administration

It has authority to stores the user information, providing registration and performing the adding, deleting, updating the user and election candidate information. The admin grants the permission for the voter's to vote. Admin gives the date for voting process so the members have to perform the voting process with in the particular date specified. Finally the administrator can view the winning candidate list.

2.3. Voting

Voter's have the provision to view the list of candidate who are nominating for the election. So they can vote for the favourite candidate through online. The voting process can be done only once. While voting verification code has generated and sent to the voter mail id. The voter have to enter a verification code to complete the voting process.

2.4. Counting

In this module counting is performed. The vote acquired by each candidate will be displayed. Total number of votes for each candidate is calculated and displayed. It helps to avoid duplication. The candidate with maximum vote is awarded as winning candidate. All these process is done is fast and effective manner.

2.5. Reports

This is the last module in this project. By this module the Admin gets the final report of the voting. The candidate with higher votes is displayed as winning candidate. The details regarding the voting process will be stored in the database for future reference.

3. PROPOSED WORK

In our proposed system the list of candidates who are nominating will be available in the online. The voter's wants to fill a registration form and the administrator will gives rights for voting process. Once the permission is granted the user can login using their own username and password. After enter their username and password verification code will generate and send to their mail id, users must enter their verification code to login. Then only user's can vote for favourite candidate. Once the voting process is completed the report will be generated at the same time. The candidate with the maximum vote is regarded as a Winner among the user. It saves time, avoid error in counting and there will be no invalid votes. It makes the voting process easy and it will be effective manner.

3.1. ADVANTAGES:

Voting time is very less.

- Less number of peoples required.
- Candidate details will be available on online.

- Admin can see the Result and Feedbacks easily.
- Accuracy of data is achieved.

4. RELATED WORKS

This system is not a manual system which contains many ledgers for storing all the information regarding voting and voters' details etc. In old times the public has to go for the booth since human manages all the activities belonging to the persons working in the voting booth there are large chances for human error. As there is lot of data work involved, skilled staffs are used. Existing system is a manual one is which all the transaction is maintained and producing report manually. The aspect of study is to check the level of acceptance of the system by the user. This includes the process of training the user to use the system efficiently. The user must not feel threatened by the system, instead must accept it as a necessity. The level of acceptance by the users solely depends on the methods that are employed to educate the user about the system and to make him familiar with it. His level of confidence must be raised so that he is also able to make some constructive criticism, which is welcomed, as he is the final user of the system.

5. EXPERIMENTAL RESULTS

User login

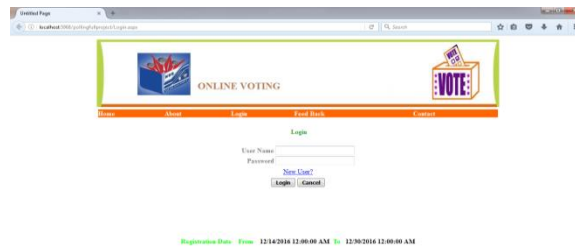


Figure 5.1: User Login of the online voting system

New Registration

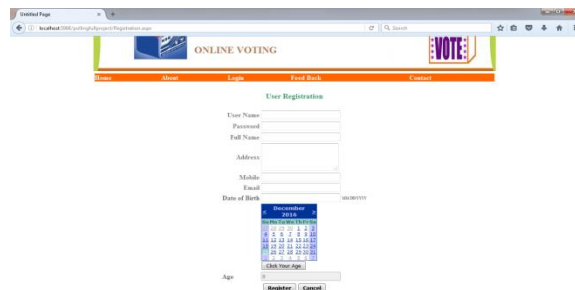


Figure 5.2: Registration of the new user giving the Authenticated details

Authentication

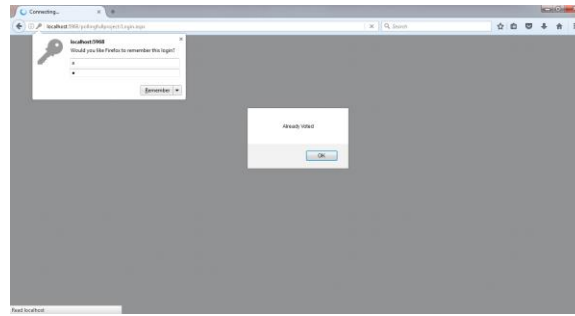


Figure 5.3: Showing the Security based result of previously voted person

6. CONCLUSION

It is concluded that the application works well and satisfy the end users. The application is tested very well and errors are properly debugged. The application is simultaneously accessed from more than one system. Simultaneous login from more than one place is tested. This system is user friendly so everyone can use easily. Proper documentation is provided. The end user can easily understand how the whole system is implemented by going through the documentation. The system is tested, implemented and the performance is found to be satisfactory. All necessary output is generated. Thus, the project is completed successfully.

7. SCOPE FOR FUTURE ENHANCEMENT

The Online Voting System platform can be made more secure by using the following methods

- Password Changing
- Fingerprinting
- Cornea Detection

The password used by the user to vote is provided by the administrator. In the future the user can be given the privilege of changing the password. So it helps to increase the security of the system. The other two methods that can be used are cornea detection and fingerprinting. But here the problem is that it decreases the scope of the platform because these systems need some electronic components to implement. So it will avoid the users privilege to cast the votes at their fingertips. But it can guarantee that fake voting will be impossible.

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