

ONLINE VOTING AND NOMINATION SYSTEM

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Abstract - Online voting and nomination system is an intelligent system that aims for the automation of election process. It facilitates the operator to enter the details related to the particular voter; centre associated with and can also retrieve the information related to the centre and voter. His/her centre performance can be analyzed with the reports available online at the website. The voter can read the various reports/results and can only get the information about the particular centre and vote casting. In addition to this a voter can cast his or her vote using valid and credentials. A voter can also enrol himself in the electoral process when he has all the valid documents like unique ID, age proof and residence proof. The Admin can read & write information about any centre and can create, update, delete centre, voter and candidate as per the requirement and implementation plans. In this project collection of data from different wards will be manually entered after all the document verifications. Data captured by employees during survey will be automatically updated. Related reports will be an available after the data entered. The candidate has the option to fill her candidature through the system providing all essential details.

Key Words: MySQL, Net Beans, Nomination, Online voting, WAMP server

1. INTRODUCTION

Online voting and nomination system is an online voting technique. In this system people who have citizenship of India and whose age is above 18 years of age and any sex can give his\her vote online without going to any physical polling station. There is a database which is maintained in which all the names of voters with complete information is stored. In Online voting and nomination system a voter can use his\her voting right online without any difficulty. He\She has to be registered first for him/her to vote. Registration is mainly done by the system administrator for security reasons. The system Administrator registers the voters on a special site of the system visited by him only by simply filling a registration form to register voter. Citizens seeking registration are expected to contact the system administrator to submit their details. After the validity of them being citizens of India has been confirmed by the system administrator by comparing their details submitted with those in existing databases such as those as the Registrar of Persons, the citizen is then registered as a voter.

After the registration, the voter will assigned with a secret Voter ID with which he/she can use to into the system and enjoy services provided by the system such as voting. If invalid/wrong details are submitted, then the citizen is not registered to vote.

2. PROBLEM FORMULATION

As India is moving towards the Digital India and the conventional voting system takes a lot more time and lack accuracy during the elections.

Some of the old methods of voting are as follows:

2.1 Paper Based Voting

The voter gets a blank ballot and use a pen or a marker to indicate he want to vote for which candidate. Hand-counted ballots is a time and labor consuming process, but it is easy to manufacture paper ballots and the ballots can be retained for verifying, this type is still the most common way to vote.

2.2 Lever Voting Machine

Lever machine is peculiar equipment, and each lever is assigned for a corresponding candidate. The voter pulls the lever to poll for his favorite candidate. This kind of voting machine can count up the ballots automatically. Because its interface is not user-friendly enough, giving some training to voters is necessary.

2.3 Direct Electronic Recording Voting Machine

This type, which is abbreviated to DRE, integrates with keyboard; touch screen, or buttons for the voter press to poll. Some of them lay in voting records and counting the votes is very quickly. But the other DRE without keep voting records are doubted about its accuracy.

2.4 Punch Card

The voter uses metallic hole-punch to punch a hole on the blank ballot. It can count votes automatically, but if the voter's perforation is incomplete, the result is probably determined wrongfully.

2.5 Optical Voting Machine

After each voter fills a circle correspond to their favorite candidate on the blank ballot, this machine selects the darkest mark on each ballot for the vote then computes the total result. This kind of machine counts up ballots rapidly. However, if the voter fills over the circle, it will lead to the error result of optical-scan.

3. PROBLEM SOLUTION

Our team has come up with a software solution that is focused on studying the existing system of voting in India and to make sure that the peoples' vote count, for fairness in the elective positions. This is also will produce:

- Less effort and less labor intensive, as the primary cost and focus primary on creating, managing, and running a secure web voting portal.
- Increasing number of voters as individuals will find it easier and more convenient to vote, especially those abroad.

4. PROJECT MODULES

Software requirement:

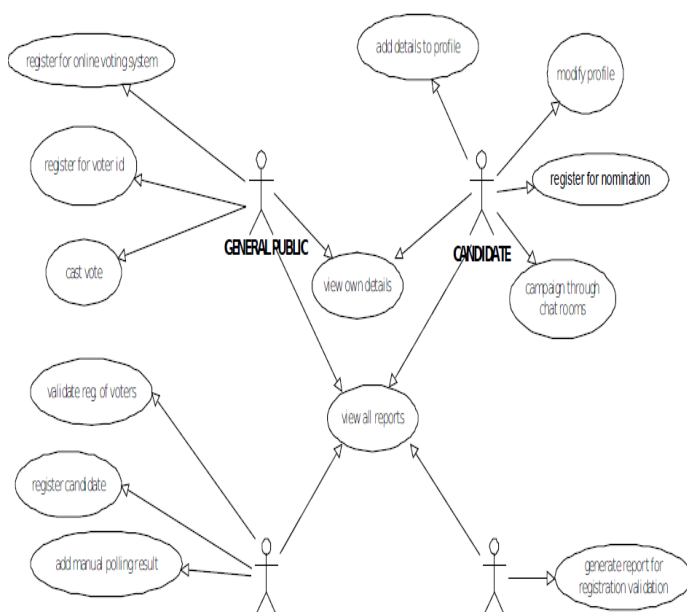
- MySQL DBMS
- NetBeans IDE 7.1.2
- JAVA Coding
- WAMP Server for testing
- Web browsers: Mozilla Firefox, Google chrome, Opera and Internet Explorer
- Reporting tool i.e. through Data report

Hardware requirement:

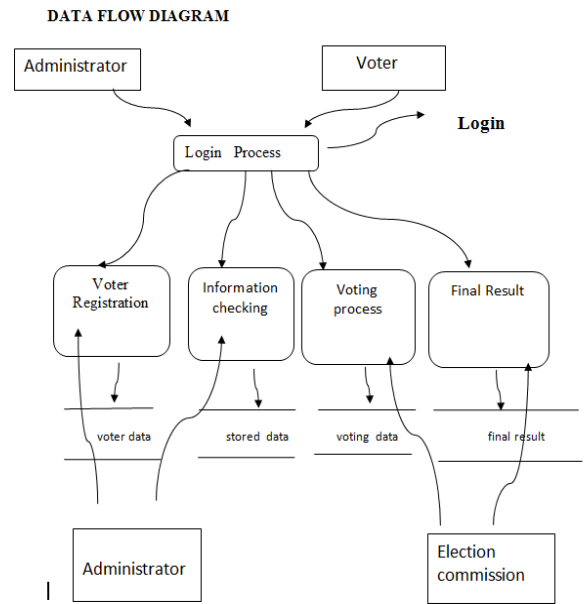
- Microsoft Windows XP Professional SP3/Vista SP1/Windows 7 Professional
- Processor: 800 MHz Intel Pentium III or equivalent
- Memory: 512 MB
- Disk space: 750 MB of free disk space

5. DESIGN DESCRIPTION

5.1 Block Diagram



5.2 DATA FLOW DIAGRAM



6. RESULTS

Once the system is fully designed it has been put into testing and has been tested using all methodologies. To validate and verify that the software is fulfilling all its requirements it was deployed during a college tech-festival. It performed as expected without any major shortcomings and announced the winner’s profile within proposed time range.

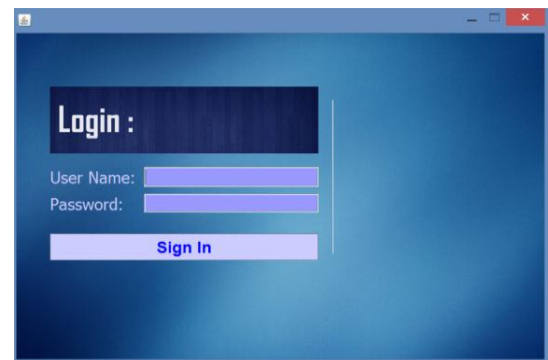


Fig -1: The administrator Log in Page



Fig -2: The candidate registration Page

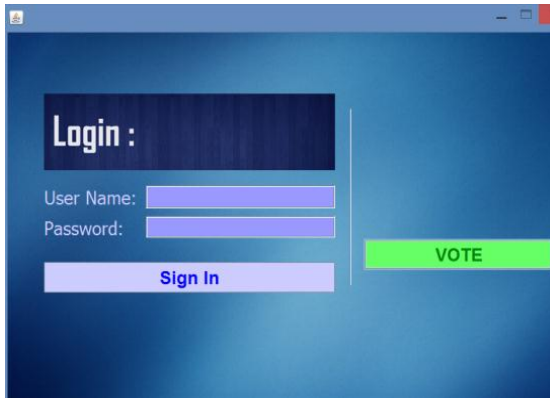


Fig -3: This page initiates the voting procedure when the admin authorizes

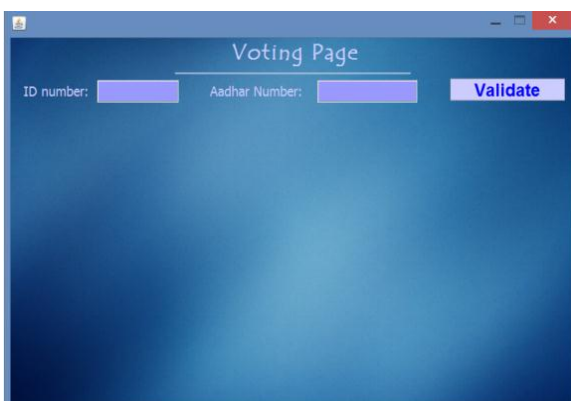


Fig -4: This page represents the voter modules in which voter cast their vote

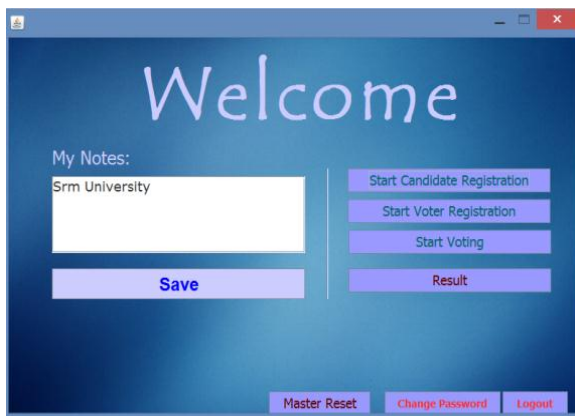


Fig -5: Administrative page used for all relative voting control

7. CONCLUSION

The proposed system enables the voter to cast his/her vote through internet without the need to physically going to polling booth and additionally registering himself/herself for the voting in advance. Proxy vote or double voting is not possible, faster accessibility, high security, easy to maintain all information of voting, highly efficient and flexible are some of the attributes of the software. The using of online voting has the potential to reduce or eradicate unwanted

human errors and reduces valuable man power that can be deployed in some other works. In addition to its reliability, the system can handle multiple modalities, and provide better scalability for larger elections.

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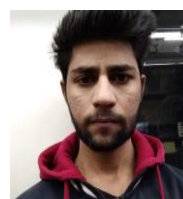
BIOGRAPHIES



My name is Shashank Singh pursuing B. Tech in Information Technology from SRM Institute of Science and Technology, India. Having always been passionate about the recent trends in IT industry and been try to bring a change using my knowledge and skills for the development of my nation.



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