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Project Synopsis

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DEVELOPMENT OF ESSENTIAL VOTING SYSTEM

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ABSTRACT

The Online Voting System is a web base application. The system has a centralized database to keep records of all the Voters and Candidates and Final Results. This Online Voting System is based on SMS sending to voters, to confirmation of Vote. This web base system is time saving, work load reduced information available at time and it provide security for the data. During the election, the election commission of India has introduced a new method of polling by online voting system (OVS). The election commission will maintain this website. This is a simple, safe and secure method that takes minimum of time.

The word VOTE means to choose from a list, to elect or to determine. The main goal of voting (in a scenario involving the citizens of a given country) is to come up with leaders of the people's choice. Most countries, India not an exception have problems when it comes to voting. Some of the problems involved include rigging votes during election, insecure or inaccessible polling stations, inadequate polling materials and also inexperienced personnel.

INTRODUCTION

The voting system currently being used by the association is a paper base system, in which the voter simply picks up ballots sheets from electoral officials, tick off who they would like to vote for, and then cast their votes by merely handing over the ballot sheet back to electoral official.

The objective of the system is a replacement of the traditional system that is in existence. This smart system reduces the time for voting and also the system is reliable, and faster. In this system the voter username and password will be sent through SMS. The voter cast their vote enter the confirmation OTP sent their mobile number. Database maintained by this system usually contains the Voters information, Candidate information, The final Result of total votes.

Here we are proposing a web application for voting process that is Online Voting System. The online voting system will manage the voter's details, Candidate details. The system can manage the information data very efficiently. The proposed system is more reliable, faster, accurate and easy to handle compared to existing manual system. It helps to computerize everything and reducing the errors as compare to manual voting system.

LITERATURE SURVEY

The Online Voting System also Known as e-voting is a term encompassing several different types of voting embracing both electronic means of counting votes. Electronic voting technology can include punched cards, optical scan voting systems and specialized voting kiosks. It can also involve transmission of ballots and votes via telephones, private computer networks, or the internet.

Online voting is an electronic way of choosing leader via a web driven application. The advantage of online voting over the common “queue method” is that the voters have the choice of voting at their own free time and there is reduced congestion. It also minimizes on error of vote counting. The individual votes are submitted in a database which can be queried to find out who of the aspirants for a given post has the highest number of votes.

This system is geared towards increasing the voting percentage in **Bharat** since it has been noted that with the old voting method, the voter’s turnout has been a wanting case. With system in place also, if high security is applied, cases of false votes shall be reduced.

With this System, a voter can use his/her voting right online without any difficulty. He/She has to register as a voter first before being authorized to vote. The registration should be done prior to the voting date to enable data update in the database.

However, not just anybody can vote. For one to participate in elections, he/she must have the requirements. For instance, he/she must be a registered citizen i.e. must be 18 and above years old. As already stated, the project provides means for fast and convenient voting and access to this system is limited only to registered voters.

Internet Voting System are appealing for several reasons which include; People are getting more used to work with computers to do all sorts of things, namely sensitive operations such as shopping and home banking and they allow people to vote far from where they usually live, helping to reduce absenteeism rate.

SIGNIFICANCE OF STUDY

The main purpose of OVS include:

- Provision of improved voting services to the voters through fast, timely and convenient voting.
- Reduction of the costs incurred by Electoral Commission during voting time in paying the very many clerks employed for the sake of the success of the manual system.
- Check to ensure that the members who are registered are the only ones to vote. Cases of “Dead People” voting are also minimized.
- Online Voting Machine will require very precise or cost cutting to produce an effective election management system.
- Therefore crucial points that this emphasizes on are listed below-
 1. Require less number of staff during the election.
 2. This system is a lot easier to independently moderate the elections and subsequently reinforce its transparency and fairness.
 3. Less capital, less effort, and less labor intensive, as the primary cost and effort will focus primarily on creating, managing, and running a secure online portal.
 4. Increased number of voters as individual will find it easier and more convenient to vote, especially those abroad.

This is a system that can be used by user to cast vote in an election. All the voters have to login and click on cast vote to his/her chosen candidates to submit his/her vote. The research development and

testing are done on LAN. On other hand online voting software is been in research for many years, researched cases of wrong implementations reported in recent years. These factors are need to be resolved so public can cast their vote in a secured and fitting environment. online voting is a voting software in which any user can use his/her voting rights from anywhere. Online voting application contains:

- a) users details
- b) users Names with ID and password.
- c) users vote in a database.
- d) sum of total number of votes.
- e) result panel
- f) chatbot to help users
- g) a unique user id given my administration

PROBLEM STATEMENT

The problems of the existing manual system of voting include among others the following:

1. **Expensive and Time Consuming:** The process of collecting data and entering this data into the database takes too much time and is expensive to conduct, for example, time and money is spent in printing data capture forms, in preparing registration stations together with human resources, and there after advertising the days set for registration process including sensitizing voters on the need for registration, as well as time spent on entering this data to the database.
2. **Too much paper work:** The process involves too much paper work and paper storage which is difficult as papers become bulky with the population size.
3. **Error during data entry:** Errors are part of all human beings; it is very unlikely for humans to be 100 percent efficiency in data entry.
4. **Loss of Registration Forms:** Some times, registration forms get lost after being filled in with voter's details, in most cases these are difficult to follow-up and therefore many remain unregistered even though they are voting age nationals and interested in exercising their right to vote.
5. **Short time provided to view the voter register:** This is very big problem since not all people have free time during the given short period of time to check and update the voter register.

METHODOLOGY

This proposed system consists of 3 main modules, which are listed below.

1. ADMINISTRATIVE MODULE

Online Voting is a voting system by which any Voter can use his\her voting rights from anywhere in India. Online voting for association contains-:

- Voter's information in database.
- Voter's Names with ID.
- Voter's vote in a database.
- Calculation of total number of votes

Various operational works that are done in the system are:-

- Recording information of the Voter in Voter database.
- Checking of information filled by voter.
- Discard the false information.
- Each information is maintained by admin.

Admin:

- **Login:**
 - Admin can login using id and password.
- **Manage Election:**
 - Add/Update/delete/view Elections.
- **Manage Candidate:**
 - Add/update/delete/view candidates.
- **Manage Voters:**
 - Add/Update/delete/view candidates.
- **View Votes:**
 - list of elections.
 - List of voters.
 - Winner Details.
 - Verify Data to Know If Its tampered.

2. Nominee Candidate Module

The Nominee details will be updated by the admin for the post of board of director and manager. The candidate will submit their own details and the admin maintain all of background details of the particular nominee and uploaded their information in correct procedure. In order to, the user or voter can view the nominee details.

3. USER/VOTER MODULE

The user after their registration only can login for voting. The user will view nominee details with their image before they can vote. After knowing the nominee details the user can login for voting. They should vote for board of director and the manager in the association. The count will taken for each voting. After voting the particular person/user cannot logon to vote again

Voter:

- **Login:**
 - User can login in his personal account using id and password.
- **Profile:**
 - User can view and update his profile.
- **Change Password:**
 - Can change the password.

SYSTEM REQUIREMENT

HARDWARE REQUIREMENT:

- Processor – Intel Pentium G6405 2.2GHz or above/AMD
- RAM-512MB or Above
- Harddisk – 10GB Or Above

SOFTWARE REQUIREMENT:

- Front-End- HTML, CSS, Bootstrap
- Back-End – JAVASCRIPT, SQL SERVER SYSTEM
- Operating System- WINDOWS XP or Above
- Browser- Any latest Browser.

CONCLUSION

This online Voting system will manage the Voter's information by which voter can login and use his voting rights. The system will incorporate all features of voting system. It provides the tools for maintaining voter's vote to every party and it count total no. of every party. There is a DATABASE which is maintained by the ELECTION COMMISSION OF INDIA in which all the names of voter with complete information is stored.

In this user who is above 18years's register his/her information on the database and when he/she want to vote he/she has to login by his id and password and can vote to any party only single time. Voting detail store in database and the result is displayed by calculation. By online voting system percentage of voting is increases. It decreases the cost and time of voting process. It is very easy to use and it is very less time consuming. It is very easy to debug.

The traditional method of manual voting system has few drawbacks. This method is obviously not efficient as it wastes the voter's energy and quite slow in term of completion. This smart system involves the voters can cast their vote easily, and can be implemented to the entire India.

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