

An Efficient and Centralized Way of Online Voting System

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Abstract: *Our paper deals with online voting system that facilitates user(voter), candidate and administrator to participate in online voting. It has a simple and interactive user interface. The proposed online portal is secured and have unique security feature such as unique id generation that adds another layer of security and gives admin the ability to verify the user information and to decide whether he is eligible to vote or not. It also creates and manages voting and an election detail as all the users must login by user name and password and click on candidates to register vote.*

Keywords: *Centralized, Voting, Polling, Efficient, Security.*

1. INTRODUCTION

Online voting system is an online voting technique. In this system people who are authorized by the admin can cast his/her vote online. There are many voting procedures which are being used for Voting purpose, such as ballot paper, EVM machine but all these procedures require more time and more man power so to eliminate all these drawbacks we provide an online voting system which provides features such as accuracy, convenience, flexibility, privacy.

Existing System

Existing system is a manual one in which users and the details of the candidates are stored in books. The users have to wait a long time in queues for voting. Wrong and unwanted votes are given. Counting of votes are done manually which takes lots of time and inaccurate counting is done. It is very difficult to maintain historical data.

In the existing system, there is compulsory need in physical presence in the time of election polling or vote counting.

Proposed System

The Online Voting System is a software application which avoids more manual hours that need to spend in record keeping and calculating votes. Through this the users and the candidates are registered online. Their information is stored in the database the admin can easily access the details of the voters and the candidates.

Every User allowed to vote only once so there is no chance of duplicated votes.

This application keeps the data in a centralized way which is available to all the users simultaneously. It is very easy to manage historical data in database. They can easily use the

tool that decreases manual hours spending for normal things and hence increases the performance.

2. LITERATURE REVIEW

Background: 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 application contains:

- a) user 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) a unique user id given my administration Various operational works proposed in the system are: information of the user in database. Verification of details submitted. by user. deletion of wrong information. Each information is submitted to administration.

2.1 Product Perspective

The product is an election conducting tool with a simple GUI. This system is developed using php. Though product is stand-alone. It requires a XAMPP server.

2.2 Product Funcations

Our System has a server back-end which takes care of authenticating the users and maintaining necessary details. The user interface at the server's end enables creating the election on behalf of the users. The users must login with id and password then they can access the election module where they can cast their vote with such ease and comfort and their response will be saved and after that result will be displayed.

3. MODULES OF OUR SYSTEM

Online voting is a portal through which a voter can cast his vote by registering themselves on the online voting platform. All the information about users is entered in database by which admin can verify the user. There are different tables in database for users, candidates, result, admin. Each voter has to enter his/her all basic information like name. This is the first page of the website known as the welcome page. It has all the page options like Home, Dashboard.

3.1 Home

It is the first page of our portal, having all the feature options of the portal. It has a link of other pages such as registration page, login page, admin section, about us. This page also gives brief description of our system about how it work , hence this page gives user the overview of whole system.

3.2 Registration

The system (Organization) register the voters on a special site of the voting system. Visited by only voters simply filling a registration form to register voters. After registration, the voters are

assigned a secret voter id with which voter can use to log into the system and enjoy the services provided by the system such as voting. If invalid/wrong details are submitted, the citizen is not registered to vote. Now the voters who are approved for voting will log into the voting system and voting system will store vote in the database. After the voting process is complete the admin will calculate the result and store it in the database, the system (Organization) will request for the result and get the result from the database through the voting system. At last the voter can check the result by logging in the system and get the result and admin will logout from the system.

3.3 User Login

After registering into the portal, their details are saved to the database and sent to the admin. The user can login to the portal with his unique USERNAME and PASSWORD generated through registration. There is option for FORGOT PASSWORD, in case user forget his password then user can go with option of forgot password.

3.4 Admin Panel

From here admin can login to his account and can manage whole voting process by adding new election, generating id for user, verifying the users, generating result and many more. He has the right to generate id for user by verifying the users

3.5 Election

This a module which gives a list of all ongoing election, this module is accessible only to those users who have been verified by admin. By this module user can cast their vote by selecting a candidate of a particular election.

Future Scope

In future we can make entire election system with a 'Live Result Update' feature
This Online Voting System can be advanced to be used by any organization in the world for conducting smooth and fair elections.

4. CONCLUSION

Our online portal gives voter a chance to cast his vote. It also reduces man power and unwanted human errors. It provides quick results of elections which are completely accurate. Our system focuses on reducing the time and paper work. Hence the online voting system make all the voting process fast and give security to the votes.

5. REFERENCES

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