

## ONLINE VOTING SYSTEM

Pandiyammal A.

Student, Department of BCA, Nirmala College for Women,  
Coimbatore, Tamilnadu, India.

Shyamala T.

Student, Department of BCA, Nirmala College for Women,  
Coimbatore, Tamilnadu, India.

S. Kulandai Teresa

Assistant professor, Department of BCA, Nirmala College for Women,  
Coimbatore Tamilnadu, India

## ABSTRACT

The Online Voting System project is concerned with the various aspects of the electoral process. The main idea is to implement the Paper process in mobile app. The current system has many manual tasks such as listing nominees, Voters, and counting the percentage of votes. In the proposed project all activities are performed as a Mobile Application. In the manual process counting is a time-consuming process as in the online voting system the counting will automatically increase. The list of nominees can be added very easily and voting is an easy way to click the Vote button Your counting will be added. This mobile app has voting issues for every voter to vote at once. In the event that an invalid person will not be able to vote. Elections allow people to choose their representatives and express their preferences about how they will be governed. Naturally, the integrity of the electoral process is the basis of the integrity of the democracy itself. The electoral system must be strong enough to withstand a wide range of fraudulent activities and must be transparent and understandable so that voters and candidates do not accept the election results. The design of the “good” voting system, whether electronic or traditional paper balloons or materials should satisfy a number of competing terms at times.

**Keywords:** JAVA, MY SQL

## INTRODUCTION

A project titled “ONLINE VOTE SYSTEM” has been developed in JAVA news and election programs. We identify a number of issues including unauthorized access to rights, malicious use of threats to network threats. We indicate that voters, without any internal rights, may vote unlimited without access to any means within the voting software. Furthermore, we demonstrate that even our worst external attacks could be detected and carried out without access to source code. Elections allow people to choose their representatives and express their preferences about how they will be governed. Naturally, the integrity of the electoral process is the basis of the integrity of the democracy itself. The electoral system must be strong enough to withstand various forms of fraudulent conduct and must be transparent and understandable to potential voters and voters who can accept election results. The design of the “good” voting

system, whether electronic or traditional paper balloons or materials should satisfy a number of competing terms at times. The anonymity of the voter vote should be maintained, both to ensure the safety of the voter when voting against a vicious person, and to ensure that voters do not have proof of which votes they received. The voting system must also be able to withstand disruptions in order to prevent a variety of attacks, including voter turnout and improper internal census. The voting system must be understood and used by all voters, regardless of age, disability, or disability

### **EXISTING SYSTEM**

The Voting System are actually done manually or done by electronic voting. So the counting of votes takes time by one day or more. Voter's registration, Nominee registration was done manually. It was very difficult to maintain the overall data. Viewing of records was found to be very difficult in the existing system. Reports were not generated for viewing of records. Difficult to gather all voters' details because it had been done manually.

### **LIMITATIONS OF EXISTING SYSTEM**

- ✓ The times taken to count the votes are high.
- ✓ The misuse of voting by malpractice.
- ✓ They have to wait for a long time to put vote.
- ✓ The including of nominee details takes time
- ✓ The time taken to put votes takes more time.

### **PROPOSED SYSTEM**

In proposed system, each and every work has been mobile Application. Voter's registration, nominee registration has been done in mobile Application. All data are kept in a secured format. Security implementation is more in proposed system. It is very easy to retrieve the details regarding the voter's details or nominee details are very easy. Reports have been generated for all process and it is very easy to view the reports. Finally Report view on the web. To overcome the drawbacks of voting manually or by electronic voting we use online Voting System by using mobile Application.

### **FEATURES OF PROPOSED SYSTEM**

- ✓ Counting votes could be done at the same time.
- ✓ The misuse of voting could be avoided.
- ✓ The nominee details could be implemented at that time itself.
- ✓ Checking whether the voter has voted or not.
- ✓ The time taken to put vote is less.

### **LITERATURE REVIEW**

From the time it takes to the current technological development, there are online voting systems. That was clarified in this document. Develop voting plans to make more efficient voting services available with ICT resources than traditional paper-based voting methods. Voters regard themselves as consumers and it is expected that the government will make the

voting business more convenient. In the past decade, various forms of electronic voting, especially as additional methods of voting for remote voting, political parties, candidates, the electoral administration, and most importantly to improve the efficiency and promise of the democratic process to the electorate have attracted considerable attention.

### **1.Srivatsan Sridharan**

#### **Implementation of authenticated and secure online voting system**

This paper aims at creation of a voting system by providing a cost-effective solution to the government along with ensuring non-traceability and integrity of the votes cast while providing great convenience to voters. This system is developed robustly to ensure that all eligible voters having a Universal Identification Number of their country (For Example the Smart Card in USA) is allowed to cast their respective vote. The voters, who cast multiple votes during the process of voting is ensured to be prevented. Also to ensure the maintenance of authenticity, any biometric identification of the voters could be used for accessing the terminal to cast their vote and restricting them to cast again. The process of online voting could be deployed with three phases - the voter registration online vote capturing and the instant online counting and result declaration. A Secret Voting Password provided to voter during registration acts as an authentication mechanism which enables the voters to securely cast their vote along with their captured biometric identification. A Simulation result of implementation of the same is described in this paper by describing the robustness of this system.

### **2.Dan S Wallach**

#### **Analysis of an electronic voting system**

With significant U.S. federal funds now available to replace outdated punch-card and mechanical voting systems, municipalities and states throughout the U.S. are adopting paperless electronic voting systems from a number of different vendors. We present a security analysis of the source code to one such machine used in a significant share of the market. Our analysis shows that this voting system is far below even the most minimal security standards applicable in other contexts. We identify several problems including unauthorized privilege escalation, incorrect use of cryptography, vulnerabilities to network threats, and poor software development processes. We show that voters, without any insider privileges, can cast unlimited votes without being detected by any mechanisms within the voting terminal software. Furthermore, we show that even the most serious of our outsider attacks could have been discovered and executed without access to the source code. In the face of such attacks, the usual worries about insider threats are not the only concerns; outsiders can do the damage. That said, we demonstrate that the insider threat is also quite considerable, showing that not only can an insider, such as a poll worker, modify the votes, but that insiders can also violate voter privacy and match votes with the voters who cast them. We conclude that this voting system is unsuitable for use in a general election. Any paperless electronic voting system might suffer similar flaws, despite any certification it could have otherwise received. We suggest that the best solutions are voting systems having a voter-verifiable audit trail, where a computerized voting system might print a paper ballot that can be read and verified by the voter.

## METHODOLOGY

The project entitled "ONLINE VOTING SYSTEM" is done using JAVA as front end and MY SQL as back end.

The modules in this project are

### MODULES

#### Administrator

- Authentication
- Add Nominee
- View result
- View Voters Details

#### Voters

- Voters Authentication
- View Nominee
- Voter Verification
- Vote

## AUTHENTICATION

Authentication contains all the information about the authenticated Person. Administrator, Nominee, User without his username and password can't enter into the login if he is only the authenticated Person then he can enter to his login. Authentication is the process of verifying the identity of a Person by obtaining some sort of credentials and using those credentials to verify the identity. If the credentials are valid, the authorization process starts. Authentication process always proceeds to Authorization process.

## NOMINEE ENTRY

This adds the Nominee Information based on the Location. It Contains Information about the Nominee id, Nominee Name, Nominee Location Party. The Nominee Details stored in the database. The Nominee Information Display the User Page.

## VIEW VOTER DETAILS

In this administrator can view all the voters list such as voter id, voter name, nominee name, party, date, mobile no in area wise. Here we are checking all voter details in correct manner.

## VIEW NOMINEE DETAILS

In this the user can view the Nominee lists their district and region wise such as Nominee id, Nominee name, party. User can choose any Nominees based on the region wise and can vote the Particular Parties. The voter details stored in the database.

## VOTING

Voting deals with every voter can vote their vote in district and region wise then also this will also check current voter is in this region or not to avoid repetition of vote. Here we can verify the particular voter committed symbol.

## VIEW RESULT

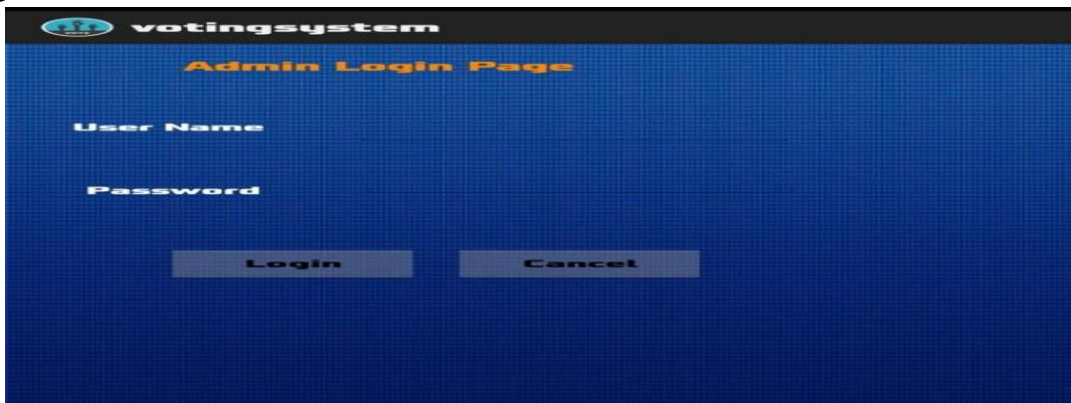
In this Administrator can view the election result for all the voters list count such as voter id, voter name, nominee name, party, date, mobile no in area wise.

## 4.FORM DESIGN

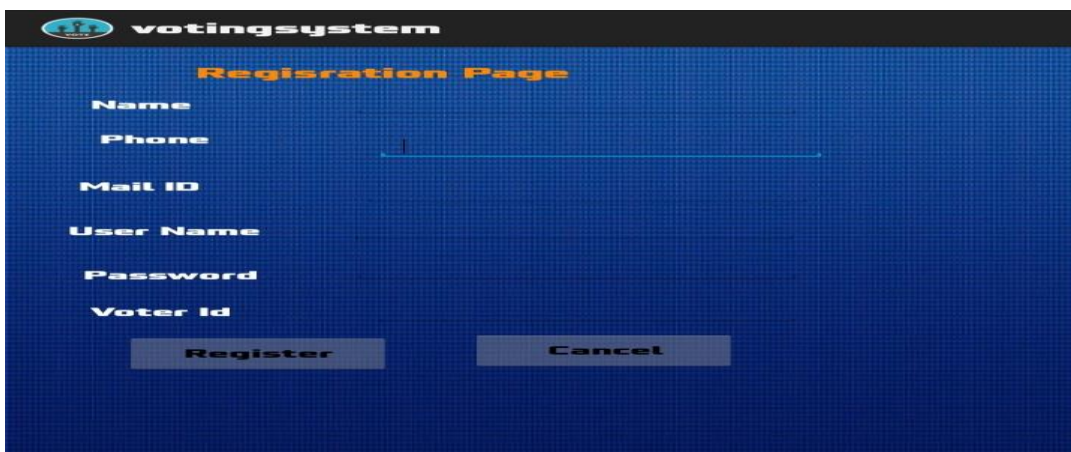
### Home page



### Admin page



### User page



### **FUTURE WORK**

Every application has its own merits and demerits. This project has covered almost all the requirements. Further requirements and improvements can easily be done since the coding is structural or modular in nature

Changing the existing module or adding new module can append improvement. Further enhancement can be made to the application, so that the mobile application function very attractive and useful manure done the present one.

The Online Voting System provides a better way of election between persons and the political parties and thereby provides a compact and stable system for voting. Fingerprint verification will provide main security to the vote of system. It is focused on studying the voting system and to make sure that people's vote is counted for fairness in the elective position.

The future design with following points in mind:

- 1) Less labor and less intensive, as primary cost and focus on creating, managing and running a secure web voting portal.
- 2) Increasing number of voters as individuals will find it easier and more convenient to vote especially those abroad.
- 3) It is an online and advanced facility which will help voters to vote from anywhere at the given time.
- 4) Limitations of Online Voting System are security issues such as attacks from external (outside hackers or attackers) or internal (corrupt management) or crash issues on the website or voting system.
- 5) We can use fingerprint sensor in future.

### **CONCLUSION**

The "ONLINE VOTING SYSTEM" has been developed to satisfy all proposed requirements. The process is maintained simpler and easier. The system is highly scalable and user friendly. Almost all the system objectives have been met. The system has been tested under all criteria. The system minimizes the problem arising in the existing manual system and it eliminates the human errors to zero level. The design of the database is flexible ensuring that the system can be implemented. It is implemented and gone through all phase of validation. All phases of development were conceived singmethodologies. User with little training can get the required report. The software executes successfully by fulfilling the objectives of the project. Further extensions to this system can be made required with minor modifications.

Our proposal enables a voter to cast his/her vote through internet without going to voting booth and additionally registering himself/herself for voting in advance, proxy vote or double voting is not possible, fast to access, highly secure, easy to maintain all information of voting, highly efficient and flexible. The using of online voting has the capability to reduce or remove unwanted human errors. In addition to its reliability, online voting can handle multiple modalities, and provide better scalability for large elections.

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4. <https://www.corteidh.or.cr/tablas/28047.pdf>