

# PR-IDENTIFICATION AND E-TRUSTED BASED VOTING MODULE – A FEASIBLE APPLICATION FOR ELECTORAL SYSTEM

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**Abstract:** Due to rapid advancement in information communication technology (ICT) and also system dependent application creates a new way to think and deploy innovative packages in every corner of government departments. Voting flow in network transmission which primarily consist ballots & votes through personal computer networks over internet. Online voting application can boost the counting of ballots and it can also be used for disabled voters for casting with easy accessibility. The basic notion behind this paper is to develop easy software for Indian people can give their vote through online without going to any physical polling station our focus is on online electoral voting system based on application software. We have developed a application software for voting system based on pr-identification of voters. The proposed application based on service oriented architecture (SOA), are very robust and also platform independent. This online voting system is highly secured, and its design is very simple, ease of use and also reliable. It also creates and manages voting and an election detail as all the users must login by user name and password and click on his favorable candidates to register vote. In this project our main goal is to establish the performance tuning between voting time and unique identification of voters in a very tiny period of time. Simultaneously we discuss security context also known as e-trusted voting system. The prototypes are building based on secured and trusted framework for electronic voting. Our System allows the voters to participate by using user name and password .Voter can enter the system and votes on the existing text during election date and the voter can see the result after the end of election date. In order to test whether the system had been fully functioning and meets the user's requirement, we have to apply the system to a sample of small group of heterogeneous peoples and finally the prototype occur the objective and give us a general prototype system that provides security and trusted electronic voting. This package is more applicable for our electoral system and also very much benefited for any voting system based on real time application.

**Key words:** SOA, Election System, Voting System, Electronic Systems, E-voting, Internet Voting Security

## I.INTRODUCTION

In any democracy voting system are integral parts without such system freedom cannot survive. Voting schemes have evolved from counting hands in early days, to systems that include paper, punch card, mechanical lever, and optical-scan machines [1]. At present, all democratic country governed by elections using voting machines or system. Using such system we can easily show that the winning margins could be less than the error margins of the voting systems themselves, making election an error prone task. Electronic voting systems provide some characteristic over traditional voting

technique. In early days when elections based on more conventional way, organizers determine who is eligible to vote. This may involve a formal registration period or an announcement that anyone who is a member of a certain group as of a certain time may vote. Once the election begins, administrators may validate the credentials of those attempting to vote. In this process one can need some identification documents for voters. Generally, this procedure also involves keeping track of who has already voted so that eligible voters may vote only once. Moreover, the traditional way of voting

generates more constraints; election fraud could be prevented by using physical security measures. The election system must be secure and robust [2]. It should be transparent and intelligible that voters and candidate can accept the results of the election. Voting Software aims at making the voting process easy in cooperative societies. Voting is performed using Online Voting and the Counting is done automatically, hence it consumes a lot of time. Voting is done with the help of computer. It saves time, avoids error in counting and there will be no invalid votes and makes the election process easy. This concept has some disadvantages such as the cost of establishing of sites of voting [3]. It provides the voter such as employers and students or any eligible voters who are far from the voting to vote easily. Every voter can participate in the election over the internet, eliminating the geographical restriction and thus increasing the rate of voting [4]. The central dogma and our objective is to develop a general prototype solution that provides enhanced security and automatic trusted electronic voting system. E-voting systems provides some key characteristic different from the traditional voting technique, and also it provides improved features of voting system over traditional voting system such as accuracy, convenience, flexibility, privacy, verifiability and mobility [5]. But it suffers from various drawbacks such as Time consuming, Consumes large volume of pure work, No direct role for the higher officials, Damage of machines due to lack of attention, Mass update doesn't allow users to update and edit many item simultaneously [6]. These drawbacks are overcome by Online Voting System [7].

### 1.1 Technical Background Problem

Last several years there are many literature survey and research papers on online voting has been developed. While online voting has been an one of the most active area of researcher in the recent years, efforts to develop real-world prototype solutions have just begun posing several new challenges. The use of unsafe insecure Internet, not much fully well documented and incorrect implementations of the resulting security have been reported recently. These are the at most challenges and serious concerns have to be resolved by researcher in order to create public trust in online voting.

### 1.2 Technical Problem Statement

E-voting systems are simple, fascinating and also ease to use. It reduces conventional manual efforts and massive amount of information can be handled easily. But out of all these features there are some serious drawbacks loopholes with this system are, for example software failure, unsecure internet and lack of familiarity about such systems. To develop E-voting system should have secure and trusted based accessibility. Usually user can access to the electronic voting system and voting on the text without security system, that

any user can access to the electronic voting system through the ID number for another user and he/she can vote more than one time at the same text, The users could know the result of voting during the process of voting which make the system unsafe.

### 1.3 Focused Research Objective

The purpose of this research study to step towards streamlining this effort and develop a novel framework and identify necessary action properties that a secure and trusted E-voting system must satisfy to reduce redundancy. Above framework will allow us to evaluate as well as compare the merits of existing and future candidate online voting schemes. Proposed System should also support multi-user environment. System should be fully automated and based on unique identification documents. System should also provide an integrated concrete security features like creating users and assigning privileges to users of the system. Proposed Solution should be capable to keep track of all the detailed descriptions of the client and the whole details of services offered by the client organization. Various related outputs should be available online any time. System should be able to handle extremely large volumes of data and also it can easily count the total amount of cast vote and automatically generate results.

### 1.4 Possible Scope of Study

The possible scope of our project is that it will use the pre-identification based unique identity documents based on individual users and also ID and password created by user to register him/her in the voting site, through this all the details of voter are saved in blackened database. And it will act as the main security to the votes system. Due rapid advancement in digital information and communication technology (DICT) creates massive amount of information which gives enough understating for end users to get involved with new technology.

## II. LITERATURE REVIEW

E-voting system has been developed for use of everyone with a simple GUI. This is software that can be used by people to vote in an election. All the user must do is login and click on his favorable candidates to register his vote. While online voting system has been an active area of research in recent years, the use of insecure Internet, well documented cases of incorrect implementations reported recently. These challenges are to be resolved so that public should cast their vote in secure and convenient way. Proposed online voting system is a voting system by which any Voter can use his/her voting rights from anywhere in country E-voting system contain,

- a) Voter's information in database.
- b) Voter's Names with ID and password.
- c) Voter's vote in a database.
- d) Calculation of total number of votes.

### III. SALIENT FEATURE

E-Voting software system in which voter can give votes through registering themselves on the voting website using unique pre-identification documents. Each voter has to enter his all basic information like name, sex, religion, nationality, criminal record E.t.c.



**"A Person without a vote is a Person without Perception."**

Welcome To Online Voting

[New User Registered Here](#)   [Already Registered User](#)   [Click Vote](#)

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Figure 1: HOME



**"A Person without a vote is a Person without Perception."**

**Registration Form**

VoterId:

Name:

DOB:

Gender:  Male  Female

Address:

Photo:  No file chosen

Password:

Email:

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Figure 2: Registration Page



**"A Person without a vote is a Person without Perception."**

**Login**

VoterId:

Password:

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Figure 3: Login Page



**"A Person without a vote is a Person without Perception."**

Creating an Online Voting System

BallotBox:

State:

Loc:

Net1  
 Net2  
 Net3  
 Net4  
 Net5

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Figure 4: Voter's welcome page

### IV. APPLICATIONS RESOURCES

We used some software application with following resources,

Front end: - Core JAVA

Back end: - MYSQL

Design: - HTML CSS (Cascading Style Sheet)

Validation: - JavaScript

Platform: - J2EE

## V. CONCLUSIONS

E- Voting system, only the legitimate voter is allowed to gain access to voting. The develop system is user friendly, in the sense that the user can easily understand the system although the user is a first time user. This is because the design is simple, attractive and do not have too many graphical items. Our research enables a voter to cast his/her based on unique pre-identification based documents which guarantee that uniqueness of voters and his cast votes. The usage 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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