# A Survey on online voting system

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***Abstract:***   *An online voting system for Indian election is proposed for the first time in this paper. The proposed model has a greater security in the sense that voter high security password is confirmed before the vote is accepted in the main database of Election Commission of India. The additional feature of the model is that the voter can confirm if his/her vote has gone to correct candidate/party. In this model a person can also vote from outside of his/her allotted constituency or from his/her preferred location. In the proposed system the tallying of the votes will be done automatically, thus saving a huge time and enabling Election Commissioner of India to announce the result within a very short period.*

***Key Words:*** *Election, Voters, Security, Privacy, Digital*

## 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 without going to any physical polling station. 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 and verifiability. Our online voting system provides user a platform where he can register himself to cast vote remotely. Our is a voting system by which any Voter can use his/her voting rights from anywhere. And for the smooth processing of voting system has an integrated chat bot. It can guide users at any stage of process to make accessibility easy.

### 1.1 Problem Background:

In the recent times there are many literatures on online voting has been developed. While online voting has been an area of research in the recent years, there are efforts made to make online voting system more secure. The use of insecure Internet, and the resulting security Breaches have been reported recently. So, the main issue now to resolve these security breaches such as denial of service attack.

### 1.2 Problem Statement:

Our online voting system will make all voting process easy because in this system we will provide chat bot, which will help every user during the voting process.  Our voting system will give instant and unbiased poll result. Our voting system will help us to keep track of voter. And our system is time efficient.

### 1.3 Research Objective:

The main objective of this study is to make a step forward in the direction of online voting platform by providing all the essential security levels. The objective of this study is to make the voting process easy, less time taking, and secure. Online voting system eliminate the bogus voting which can occur in tradition voting schemes.

### 1.4 Scope of Study

As we all know that there are many organizations that conduct elections for the positions like "Group leader, Project leader, Employee of the month, and for some minor changes in working environment etc. In that case, online voting can very helpful to conduct vote. People can cast their vote from anywhere.

## 2. LITERATURE REVIEW:

### 2.1 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 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

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.

## 2.2 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.

## 2.3 Product Functions:
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 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 all basic information like name, gender, state, email-id. This is the first page of the website known as the welcome page. It has all the page options like Home, Polling Dates, Register, Login, about us, Contact us, FAQs.

## 3.1 Registration:
This is the registration page, where the voter can register themselves. The users have to enter their details which are required by admin through registration page. All the details registered on the portal are saved in the respective database. The Admin has authority to accept eligible user, otherwise he has right to reject their registration by providing reason of rejection.



**Fig 1: Registration**

## 3.2 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 Voter-Id and PASSWORD generated through registration. There is option for FORGOT PASSWORD, in case user forget his password then user can go with option of a forgot password.
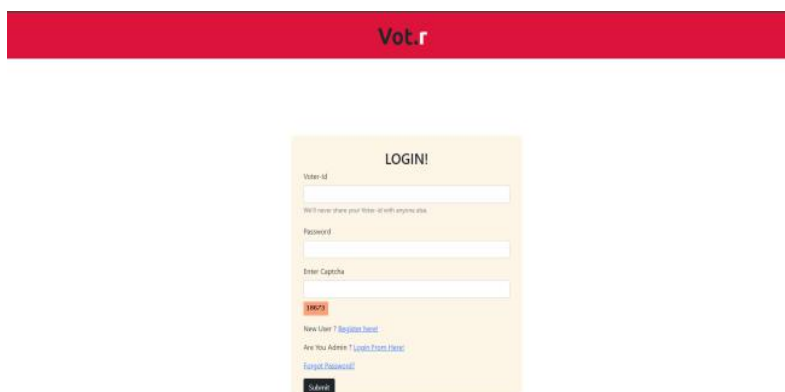
**Fig 2: User Login**

### 3.3 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.
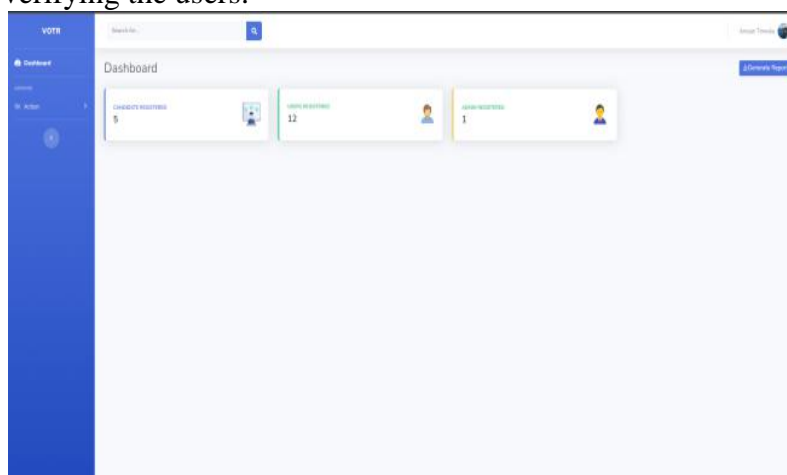


**Fig 3: Admin Panel**

### 3.4 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.
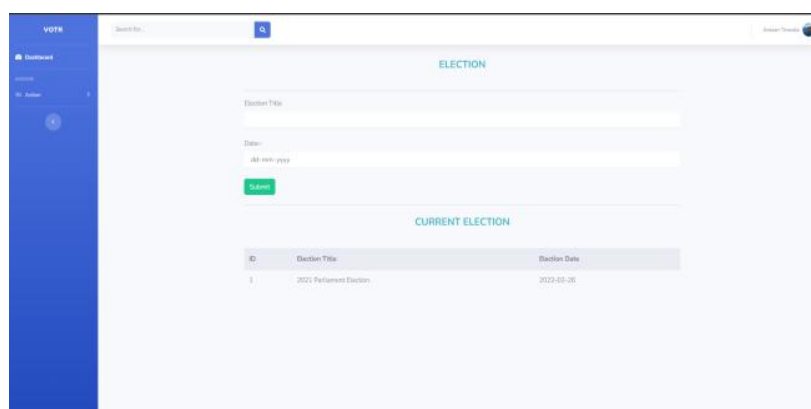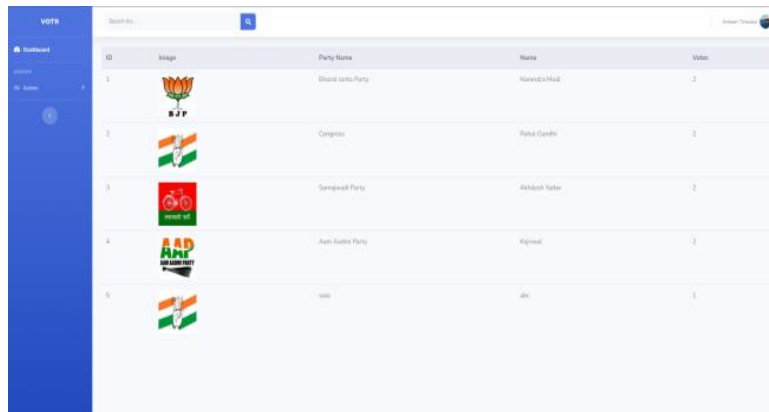


**Fig 4: Election**

### 3.5 Result:

This module provides the results of all the completed elections; user has the right to see the result of elections. All the results are being generated by admin after the successful completion of the election.

**Fig 5: Result**

## 4. CONCLUSION:

Our online portal gives voter a chance to cast his vote via internet without going to voting booth. This system gives fast access, more security levels, high flexibility and efficiency. It also eliminates the chances fake person casting vote or bogus voting. 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.

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