

# System using Multiple Encryption on Web Based Internet Voting System

Prerana Nikhil Mahajan

Vivek nagar ,Akurdi,Pune

**Abstract-** In This Paper things is becoming online, so human tendency has changed, they try to do every things from home using Internet. Election is also becoming online Here an image based and biometric authentication is used. Use of homomorphic technique encrypts the casted vote stored securely in vote casting and recording server. Also the system is very user friendly.

**Index Terms-** web server, digital signature, internet voting.

## I. INTRODUCTION

Election and voting are well known things in modern days of Democracy. Electronic online voting over the Internet would be much more profitable. Many voters would appreciate the possibility of voting from anywhere. A Electronic voting, as the name implies, is the voting process held over electronic media, i.e. computers. In general, such internet voting system should satisfy such requirements as Accuracy, Simplicity, Democrac., Privacy, Security. For such an internet voting system, security and privacy are main concerns. From that point of view, an implementation of secure Internet voting system appears to be another application of cryptography and network security. Pashine, ninave and kelapure proposed an android dais for online voting system. This request provide change of long procedure also offer security to the voter and its voter coziness system voter no need to go polling booth easily vote for candidate in hometown itself. And also provide the option of gesture recognition but authentication is the problem of android platform. On server side decryption of that vote is done before counting. We require two keys for this purpose one for encryption on voter system, which should be publicly known and second key for decryption of encrypted vote before counting on voting server, this key must be private. So for this purpose we need a pair of asymmetric keys. To provide security from active intruder who can alter or tamper the casted vote when vote is transferring from **voter** to voting server, we are using digital signature. When a voter cast his/her vote after that he/she will digitally sign on that by using his/her own private digital signature, and send this to voting server, on voting server side that signature is checked by digital signature verifier of that voter which is publicly known. For this purpose each voter should have a private digital signature and a public digital signature verifier, for this we are using a pair of asymmetric keys for each registered voter. In this application which is partitioned into three panels on the basis of its users as follows: Admin Panel: This panel will be specifically used by members of election commission to administer all the electoral processes including registrations of candidates & voters; and monitor all other actions

carried out by them. Candidate Panel: This panel will be specifically used by electoral candidates to interact with the election commission & voters which will help them to work efficiently not only before the election but also after the election if elected. Voter Panel: This panel will be specifically used by each individual voter who is eligible for casting his vote i. e. a person ageing 18 years or the above. These are the main users, for whom the application is developed. Online voting system security is main concern. In online voting process maintain the strict privacy and uprightness of the vote casted and authentication before voter is cast their votes. An online voting system authentication is the main problem, only approve someone can give their vote. Person can be authorizing by some methods that can be personal identification number (PIN), secret message user identity proof. All authenticated data can be collocated by user. All authentications are verified by main database then allow for that voter to vote for candidate. Authentication is verified by biometric identification process and steganography.

## II. LITERATURE SURVEY

1] Ninave Pashine and kelapure proposed an android dais for online voting system. This request provide change of long procedure also offer security to the voter and its voter coziness system voter no need to go polling booth easily vote for candidate in hometown itself. And also provide the option of gesture recognition but authentication is the problem of android platform.

2] Pradhi and Jambhulakar, chakole proposed a novel security for online voting system by using multiple encryption schemes. Provide security for cast vote when it is submitted from voting polling station to voting stored server. Multiple encryptions to pass up DOS attack. Security provide obedient as well as lively interloper. This system is to take a decision of certain issues. This paper use cryptography concepts to take Advantages of digital signature. Encrypting the send forth vote to client server then send to server with the help of internet. After sending encrypted vote then server side decrypt the vote before counting. On server side decryption process of that vote is done before counting casted vote. We need two keys for this cause one for encryption on voter side system, which should be easily known and second key for decryption of encrypted vote before counting casted vote on voting server, this key must be confidential.

### III. PROPOSED SYSTEM

In proposed system user does registration process first. Send all information to authentication server send password and ID Advantages of digital signa-ture. Encrypting the send forth vote to clientserver then send to server withthe help of internet. After sending encrypted vote then server side decrypt the vote before counting. On server side decryption process of that vote is done before counting casted vote. We need twokeys for this cause one for encryption on voter side system, which shouldbeeasily known and second key for decryption of en- crypted vote before counting casted vote on votingperson ageing 18 years or the above. These are the main users, for whom the application is developed. Online voting system security is main con- cern. In online voting process maintain the strict privacy and uprightness of the vote casted and authentication before voter is cast their votes. An online voting system authentic cation is the main problem, only approve someone can give their vote. Person can be authorizing by some methods that can be theform personalidentification number (PIN), secrete messageuser identity proof. All authenticated data canbe collocated data to voter

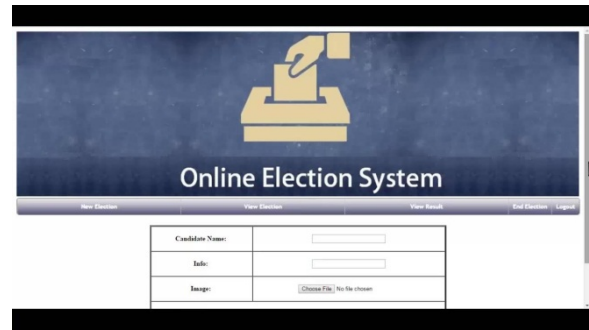


Fig 2:Online first page for the system is shown in fig 2

### IV. CONCLUSION

In this Paper biometric authentication with secure approach will be done In previous system cannot provide different online voting system is technique is studied based on homomorphic encryption casted vote is not stored securely or separately. We are providing security casted vote and only authenticated person is cast their vote .

### REFERENCES

- [1] Srivatsan Sridharan , "Implementation of Authenticated and Secure Online Voting System" , 4th ICCCNT 2013 , Tiruchengode, India No.6, July 2013.
- [2] Himanshu Agarwal, G.N.Pandey, "Online Voting System for India Based on AADHAAR ID", Eleventh International Conference on ICT and Knowledge Engineering 2013.
- [3] JProf. S.M. Jambhulkar, Prof. Jagdish B. Chakole, Prof. Praful. R. Pardhi, "A Secure Approach for Web Based Internet Voting System using Multiple Encryption",
- [4] K. P. Kaliyamurthi, R. Udayakumar, D. Parameswari and S. N. Mugunthan , highly securedd online voting system
- [5] Gianluca Dini Increasing Security and Availability of an Internet Voting System, Proceedings of the Seventh Inter- national Symposium on Computers and Communications
- [6] (ISCC02) 1530-1346/02, 2002 IEEE. Ms. Ashwini Walake, Prof. Ms. Pallavi Chavan, " Efficient Voting system with (2,2) Secret Sharing Based Authentication", (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 6 (1) , 2015, 410-412.
- [7] (ISCC02) 1530-1346/02, 2002 IEEE. Ms. Ashwini Walake, Prof. Ms. Pallavi Chavan, " Efficient Voting system with (2,2) Secret Sharing Based Authentication", (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 6 (1) , 2015, 410-412.

### AUTHORS

**First Author** – Prerana Nikhil Mahajan, Vivek nagar ,Akurdi,Pune , Preranamali8@gmail.com

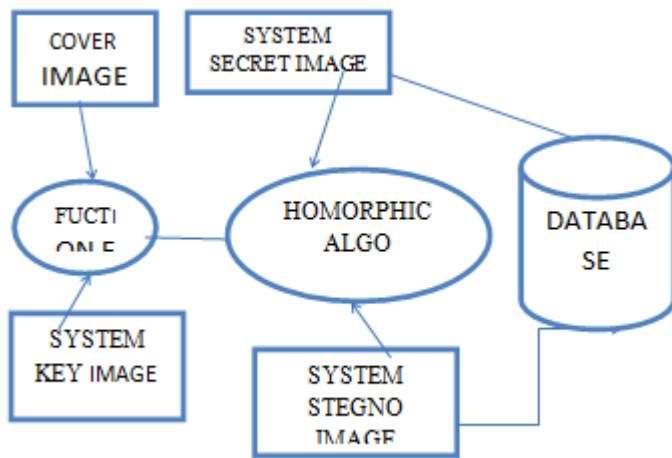


Fig 1: function stegno image for system

Online Voting System For Web based Purpose is shown in fig1.