



Smart E-Voting System with Face Recognition by Block-Chain Technology

Shubham Ghule¹, Mayur Bhondave², Pournima Mishra³, Vaibhav Survase⁴, Prof. Alka Kulkarni⁵

Student, Department of Computer Engineering, KJEE's Trinity College Of Engineering And Research, Pune, India^{1,2,3,4}

Professor, Department of Computer Engineering, KJEE's Trinity College Of Engineering And Research, Pune, India⁵

Abstract: The advancement in the mobile devices, wireless and web technologies given rise to the new application that will make the voting process very easy and efficient. The E-voting promises the possibility of convenient, easy and safe way to capture and count the votes in an election. This research project provides the specification and requirements for E-Voting using an Android platform. The e-voting means the voting process in election by using electronic device. The android platform is used to develop an E-voting application.

In the proposed method the concept of e-voting application is created using android. The authentication is done through the face recognition through the mobile camera application. In this method the voter has to register using the application and the face recognition will be provided once the registration is successful. On scanning the face, the voter will be asked for the password. Once the authentication is done the voter is made to proceed with the voting process. The main purpose of implementing this concept is to increase the voting percentage. So that the voter is not required to visit the voting center to cast their vote and also to avoid fake voting.

Keywords: Privacy, E-voting, smart-phone, face detection, mobile camera, One Time Password.

I. INTRODUCTION

Voting is the method for choosing a person who is being selected by the community member for a position at entire country. Voting process not just only in the election for selected the candidates who will be in the requirement position like a President. The process also will do for choosing the person that needs to vote who will in the position for handle the task for example for the choosing the leader in the class. As known, the voting process was using the ballots paper to ensure the process system. It is difficult because the problem which the ballots need to calculated by manually calculating. In manually calculating, the problem that can be happen when the person who calculated the ballots will miss counting or maybe the person more bias at one person candidates.

Technology development of mobile applications nowadays is more popular and used by authorized body. The advent of various mobile applications on time currently has influenced the style of life than can help users to facilitate the activities of their daily lives. Android is one of the major operating systems in the growing market in nowadays.

II. PROBLEM STATEMENT

we first formally define the e-voting fraud detection. Then, we prove that the time limit. The proposed system we define the easy to use and the simple android application for the using face recognition using android camera and the avoid fraud.

III. GOALS & OBJECTIVES

- The main objective of this system is avoid the fraud for election department and the time limitation system. For using this application everyone can get the easy to vote.
- The scope of project is to add the finger print module the person recognition using the finger print and the select to voter.

IV. PROPOSED SYSTEM

System resides in the new concept of face recognition system and android Application. Candidate details made to application the proposed system scan the personal details with the face recognition and the person is eligible for voting or not to identify using the Aadhar card and PAN card if the person is less the 18 year then it can't eligible for voting system display the popup message to user and the log in failed to system.

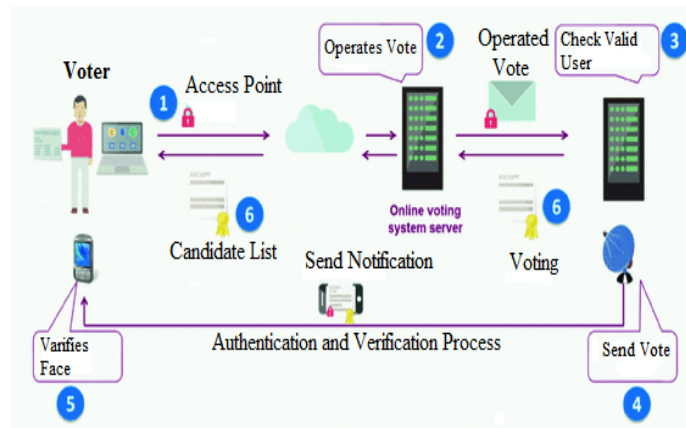


Fig.: System Architecture

V.CONCLUSION

Through changes to the voting system developed previously in the Online Voting Project, most legal reservations against electronic voting were rebutted. The voting protocol became simpler and faster to implement, but most significantly now offers better integration of the general public through the use of a bulletin board. Previously existing technical security.

REFERENCES

- [1]. Dr.Aree Ali Mohammed and Ramyar Adbolrahman Timour, Efficient E-voting Android Based System, IJARCSSE,vol.3,Issue 11,2013
- [2]. A.S. Belenky and R.C. Larson, "To Queue or not to Queue?," OR/MS 27, October 2013, pp. 30-34.
- [3]. "An Electronic Polling Service to Support Public Awareness Using Web Technologies", Christos Bouras, Nikolaos Katris, Vassilis Triantafillou. International Journal of Computer- Aided Technologies (IJCAx) Vol.4, No.1/2, April 2017
- [4]. "E-voting on Android System" paper (International Journal of Emerging Technology and Advanced Engineering) prepared by: Kirti Autade, Pallavi Ghadge, Sarika Kale, Co-authors- Prof. N. J. Kulkarni, Prof. S. S. Mujgond, February 2012.
- [5]. "Electronic Voting," Encyclopedia of Computers and Computer History, prepared by Lorrie Faith Cranor and edited by Raul Rojas, published by Fitzroy Dearborn, 2001.
- [6]. "Voting – What is, What Could be," Caltech/MIT Voting Technology Project (VTP) Report, July 2001.
- [7]. Java Cryptography an e-book by Jonathan B. Knudsen, First edition May 1998, ISBN:1-56592-402-9