

# Online Voting System

Sayeed Anwar Sheikh<sup>1</sup>, Amaan Syed<sup>2</sup>, Osama Saleh<sup>3</sup>, Mohd Aneeqe Khan<sup>4</sup>, Anand Bali<sup>5</sup>

Student, Department of Computer Engineering<sup>1,2,3,4</sup>

Professor, Department of Computer Engineering<sup>5</sup>

M. H. Saboo Siddik College of Engineering, Mumbai, Maharashtra, India

**Abstract:** *The project "Online Voting System" aims to simplify voting in any type of election. In India, presently voting is done either using ballot paper or with EVM machines. In the traditional Voting approach, Individuals are required to visit voting stations and cast their votes. People from various locations who don't have their voting cards are unable to cast their votes. Also, the user's validation is poor and inappropriate. Further, the conventional voting system involves a lot of manual work which is a time-consuming process. Therefore, to overcome the drawbacks in the existing system this particular system was proposed to mark our work much easier and to reduce wastage of time. This work deals with design, building and testing a online voting system that facilitates user (the person who is eligible for voting), candidate (Candidate are the users who are going to stand in elections for their respective party), Election Commission Officer (Election Commission Officer who will verify whether registered user and candidates are authentic or not) to participate in online voting. This voting system is highly secured and has a very simple, user-friendly, and reliable design. The proposed application is developed and tested to work on Ethernet and allow online voting. The user can register by giving his personal details and the image of his face which gets stored in the database presented at the central side. After the voting date is fixed and the user gets pop up notifications on his/her android phone via GCM (Google Cloud Messaging). After that the users open the application then the face authentication is done at server side using the OTP. If the user is a valid user, then OTP is sent to the user's mail address the user accesses the voting form using their OTP, casts their vote, clicks the submit button, and then logs out.*

**Keywords:** Online voting system, Voter authentication, Biometric identification, security, AADHAAR ID based online election

## REFERENCES

- [1]. International Journal of Trend in Research and Development, Volume 2(5), ISSN 2394- 9333 www.ijtrd.com,IJTRD | Sep - Oct 2015.
- [2]. IRJET-June 2019-International Research Journal of Engineering and Technology.
- [3]. International Journal of Advanced Research in Computer and Communication Engineering.
- [4]. Android Based e-Voting Mobile App Using Google Firebase as BaaS Urmil Bharti, Deepali Bajaj, University of Delhi.
- [5]. Secured Smart Voting System using Aadhaar, Adarsha M G , Pradhyumna K R Information Science and Engineering.2017..
- [6]. Application For Online Voting System Using Android Device.2018. Pratiksha S. Patel Electronics and Telecommunication Engineering.
- [7]. 2020 International Conference on Emerging Trends in Information Technology and Engineering (ic-ETITE). Online Voting System using Cloud.
- [8]. 2020 6th International Conference on Advanced Computing & Communication Systems (ICACCS0). A Candidate Aware Internet Voting System for Indian Scenario.
- [9]. 2017 International Conference on Innovations in Information, Embedded Communication Systems (ICIIECS). Multi-purpose platform independent online voting system.
- [10]. 2018 IJRTI | Volume 3, Issue 5 | ISSN: 2456-3315. Smart voting system using android.
- [11]. International Journal of Engineering Research & Technology (IJERT) 2021. A Review of Online Voting System Security based on Cryptography.

- [12]. AN EFFICIENT AND SECURABLE ONLINE VOTING SYSTEM. Mr.M.Sanjai, Dr.R.Umamaheswari.
- [13]. International Journal of Engineering & Technology, 7 (3.20) (2018) 860-863. The Evaluation of the Electronic Voting System: a Review.
- [14]. International Journal of Informatics Information System and Computer Engineering 2(1) (2021) 77-82. Virtual voting system.
- [15]. International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395- 0056 Volume: 04 Issue: 12 | Dec-2017 www.irjet.netp-ISSN: 2395-0072
- [16]. International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395- 0056 Volume: 07 Issue: 05 | May 2020 www.irjet.netp-ISSN: 2395-0072
- [17]. International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395- 0056 Volume: 05 Issue: 04 | Apr42018 www.irjet.netp-ISSN: 2395-0072
- [18]. International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395 - 0056 Volume: 03 Issue: 04 | Apr-2016 www.irjet.netp-ISSN: 2395-0072
- [19]. International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395 - 0056 Volume: 03 Issue: 04 | Apr-2016 www.irjet.netp-ISSN: 2395-0072
- [20]. International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395- 0056 Volume: 05 Issue: 05 | May-2018 www.irjet.netp-ISSN: 2395-0072