

# Design and Development of Internet Voting System

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**Abstract:** *The explosion in the use of information technology and the widespread use of the Internet makes information and communication technologies to get their inevitable benefits. Some of these benefits are accuracy, speed, cost saving, etc. Election and voting are one of the cases which have recently tended to be performed electronically. Our paper deals with online voting system that facilitates user(voter), candidate and administrator (who will be in charge and will verify all the user and information) to participate in online voting. our online voting system is highly secured, and it has a simple and interactive user interface. The proposed online portal is secured and have unique security feature such as unique id generation that adds another layer of security (except login id and password) and gives admin the ability to verify the user information and to decide whether he is eligible to vote or not. It also creates and manages voting and an election detail as all the users must login by user name and password and click on candidates to register vote. Our system is also equipped with a chat bot that works as a support or guide to the voters, this helps the users in the voting process.*

**Keywords:** E-Voting System, Internet Voting System, HTML, CSS, JavaScript, Java.

## REFERENCES

- [1] Mpekoa, Noluntu, and Darelle van Greunen. "E-voting experiences: A case of Namibia and Estonia." *2017 IST-Africa Week Conference (IST-Africa)*. IEEE, 2017.
- [2] Omidi, Amir, and Mohammad AbdollahiAzgomi. "An architecture for e-voting systems based on dependable web services." *2009 International Conference on Innovations in Information Technology (IIT)*. IEEE, 2009.
- [3] Butterfield, Kevin, and Xukai Zou. "Analysis and implementation of internet based remote voting." *2014 IEEE 11th International Conference on Mobile Ad Hoc and Sensor Systems*. IEEE, 2014.
- [4] Usmani, Z. A., et al. "Multi-purpose platform independent online voting system." *2017 International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS)*. IEEE, 2017.
- [5] Zou, Xukai, et al. "Assurable, transparent, and mutual restraining e-voting involving multiple conflicting parties." *IEEE INFOCOM 2014-IEEE Conference on Computer Communications*. IEEE, 2014.
- [6] Armen, Chris, and Ralph Morelli. "Teaching about the risks of electronic voting technology." *Proceedings of the 10th annual SIGCSE conference on innovation and technology in computer science education*. 2005.
- [7] Patil, Mayur, et al. "A Survey on Voting system techniques." *International Journal of Advanced Research in Computer Science and Software Engineering* 3.1 (2013): 114-117.
- [8] Achieng, Mourine, and EphiasRuhode. "The adoption and challenges of electronic voting technologies within the South African context." *arXiv preprint arXiv:1312.2406* (2013).
- [9] Prosser, Alexander, and Robert Krimmer. "The dimensions of electronic voting—Technology, law, politics and society." *Electronic voting in Europe-Technology, law, politics and society, workshop of the ESF TED programme together with GI and OCG*. Gesellschaft für Informatik eV, 2004.
- [10] A. Das, "Usability of electronic voting system in India and innovatory approach", *International Journal of Applied Science and Engineering Research*, 2015, 4(5), 633-642.
- [11] Baskonus, Haci Mehmet. "New complex and hyperbolic function solutions to the generalized double combined Sinh-Cosh-Gordon equation." *AIP Conference Proceedings*. Vol. 1798. No. 1. AIP Publishing LLC, 2017.

[12]Bhokarkar, Renuka P., Sandeep V. Gaikwad, and K. V. Kale. "Development of ATIS-web based system for Aurangabad city." (2018).

[13]Bhokarkar, Renuka P. et al. "Advanced Traveler Information System for Aurangabad City." (2018.)