IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 12, Issue 3, December 2021

A Survey of the Functions of Blockchain E-Voting

Ms. Shaikha Shamin V1 and Ranjana2

M. Tech, Department of CSE¹
Assistant Professor, Department of CSE²
Vedavyasa Institute of Technology, Malappuram, Kerala, India

Abstract: Since human beings have recognized the ability of Blockchain generation, many researchers tried to find actual-existence programs of Blockchain. As a result of its first software program, Blockchain has grown to be well-known as a virtual foreign forex primarily based on Blockchain era: Bitcoin generation, inheriting its potential from the decentralized network. After Bitcoin, so many virtual currencies incepted. for decades Blockchain has been misunderstood as the general public ledger which can be used for preserving the online foreign money transaction file. people have been less privy to the alternative features and so the programs of Blockchain. one of the most suitable times inheriting many functions of the Blockchain is on line voting or decentralized voting. Many researchers have proposed numerous solutions inheriting the numerous features of the Blockchain. know-how the functions and their importance in Blockchain vote casting is a vital subject matter that we want to difficulty. These capabilities will then be used to increase a more comfy and obvious balloting answer.

Keywords: Blockchain, bitcoin, Ethereum, Online balloting, decentralized balloting.

REFERENCES

- [1]. Gaby G. Dagher, Praneeth Babu Marella, Matea Milojkovic, Jordan Mohler, "BroncoVote: Secure Voting System using Ethereum's Blockchain", ICISSP 2018 4th International Conference on Information Systems Security and Privacy, 2018
- [2]. Xuechao Yang, Xun Yi, Surya Nepal, Andrei Kelarev, and Fengling Han, "A Secure Verifiable Ranked Choice Online Voting System Based on Homomorphic Encryption", DOI 10.1109/ACCESS.2018.2817518, 2018
- [3]. Baocheng Wanga, Jiawei Suna, Yunhua Hea, Dandan Panga, Ningxiao Lua, "Large-scale Election Based On Blockchain", International Conference on Identification, Information and Knowledge in the Internet of Things, Available online at www.sciencedirect.com, 2017
- [4]. Freya Sheer Hardwick, Apostolos Gioulis, Raja Naeem Akram, and Konstantinos Markantonakis, "E-Voting with Blockchain: An E-Voting Protocol with Decentralisation and Voter Privacy",2018.
- [5]. Polys Online voting system, Whitepaper. [online] Available : https://polys.me/assets/docs/Polys_whitepaper.pdf
- [6]. Preethi Kasireddy, "How does ethereum work anyway", [online] Available: https://medium.com/@preet hikasireddy/how-does-ethereum-work-an yway22d1df506369
- [7]. Andrew, "Blockchain Fundamentals #1: What is a Merkle Tree?", [online], Available: https://medium.com/byzantine-studio/blockchain-fundamentals-whatis-a-merkle-tree d44c529391d7
- [8]. Somnath Panja, Bimal Kumar Roy, "A secure end-to-end verifiable e-voting system using zero knowledge based blockchain", [2018]
- [9]. Silvia Bartolucci, Pauline Bernat, Daniel Joseph, "SHARVOT: secret SHARe-based VOTing on the blockchain", ACM/IEEE 1st International Workshop on Emerging Trends in Software Engineering for Blockchain, [2018]
- [10]. Iuon-Chang Lin and Tzu-Chun Liao, "A Survey of Blockchain Security Issues and Challenges",

Copyright to IJARSCT www.ijarsct.co.in

DOI: 10.48175/IJARSCT-2426

114

IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 12, Issue 3, December 2021

International Journal of Network Security, Vol.19, No.5, PP.653-659, [2017]

- [11]. Shaan Ray, "Blockchain Forks" [online] Available: https://hackernoon.com/blockchain-forks b0dca84db0b0
- [12]. Lionel Dricot and Olivier Pereira, "SoK: Uncentralisable Ledgers and their Impact on Voting Systems", [2018]
- [13]. Cédric Bellet, "Part 5: Hashing with SHA-256", [online] Available:https://medium.com/biffures/part-5-hashing-with-sha-256-4 c2afc191c40
- [14]. Khan, Kashif Mehboob,et al. "Secure Digital Voting System Based on Blockchain Technology." IJEGR vol.14, no.1 2018: pp.53-62. http://doi.org/10.4018/IJEGR.2018010103
- [15]. S. F. Sayyad, Mangesh, Ashutosh Patil, Vandana Pathare, Prayag Poduval," Features of Blockchain Voting: A Survey." IJIRST vol.5, Issue 9, [2019]: ISSN (online): 2349-6010

DOI: 10.48175/IJARSCT-2426