

Crowd Gain – Crowdfunding Web Application Based on Blockchain using Ethereum

Shrishti Varshney, Satyam Aggarwal, Vinay Sharma, Rahul Sharma

Department of Computer Science and Engineering
Raj Kumar Goel Institute of Technology, Ghaziabad

Abstract: Crowdfunding is a novel technique to directly generate cash and obtain investors for new commercial ventures from the public, rather than generating funds in traditional ways, such as leasing money from banks or pitching project ideas in front of investors. Crowdfunding websites connect investors and artists on a platform that makes investors easily accessible. Blockchain-based crowdfunding offers an alternative to the traditional method of raising capital for businesses. Typically, when creators need money for their initiatives, they must develop marketing plans to draw in individuals or organizations. The three-tier structure of current crowdfunding approaches includes a project creator who proposes the idea of the project to be funded, an organization or investor who invests in the project, and a platform that combines these two elements to create a successful company.

Keywords: Blockchain, MetaMask, decentralized, Smart Contracts, Ethereum, Third Web, Goerli Faucet, Solidity.

REFERENCES

- [1] Ashari, Firmansyah. Smart Contract and Blockchain for Crowdfunding Platform. International Journal of Advanced Trends in Computer Science and Engineering (2020). 9. 3036-3041. 10.30534/ijatcse/2020/83932020.
- [2] Ritvik Gupta, Mayank Yadav, Usha Dhankar. Crowdfunding using Ethereum Blockchain. Ijrasct Journal for Research in Applied Science and Engineering Technology (2022). DOI: 10.22214/ijrasct.2022.43130.
- [3] Menon, Arjun and Kadam, Kaustubh and Kumar, Pranav and Shah, Subash Kumar, Decentralized Crowdfunding Using Blockchain (January 15, 2023). Available at SSRN: <https://ssrn.com/abstract=4324640> or DOI: 10.2139/ssrn.4324640.
- [4] Zad, Saniya and Khan, Zishan and Warambhe, Tejas and Jadhav, Rushikesh and Alone, Vinod, Crowdfunding Using Blockchain Technology (December 31, 2022). Available at SSRN: <https://ssrn.com/abstract=4330476> or <http://dx.DOI.org/10.2139/ssrn.4330476>.
- [5] Ankita A. Malve, Shweta M. Barhate, Satish J. Sharma, "TRUSTED CROWDFUNDING USING SMART CONTRACT", International Journal of Emerging Technologies and Innovative Research (www.jetir.org | UGC and ISSN Approved), ISSN:2349-5162, Vol.9, Issue 6, page no. pp371-375, June-2022, Available at: <http://www.jetir.org/papers/JETIRFM06067.pdf>
- [6] Hassija, Vikas & Chamola, Vinay & Zeadally, Sherali. (2020). BitFund: A Blockchain- based Crowdfunding Platform for Future Smart and Connected Nation. Sustainable Cities and Society. 60. 102145. 10.1016/j.scs.2020.102145.
- [7] Sarkar, Abhrajit, Crowd Funding in India: Issues & Challenges Available at Social Science Research Network February 27, 2016.SSRN: <https://ssrn.com/abstract=2739008> or <http://dx.DOI.org/10.2139/ssrn.2739008>
- [8] Dhiman, Tushar and gulyani, Vidit and Bhushan, Bharat, Application, Classification and System Requirements of Blockchain Technology (May 14, 2020). Proceedings of the International Conference on Innovative Computing & Communications (ICICC) 2020, Available at SSRN: <https://ssrn.com/abstract=3600745> or <http://dx.DOI.org/10.2139/ssrn.3600745>.
- [9] Lilani, Siddharth & Modi, Jimit & Malani, Dhrumil & Soni, Fenil. (2019). Securing the Software Development Life Cycle (SDLC) with a Blockchain Oriented Development Approach.

- [10] Dhansri Sudhir Bawankule, Rushikesh Bharatrao Adhau, Shyamli Rajesh Deotale, Kiran Laxman Pandhare, Prof. Priyanka Shirbhate (2022). Review On Blockchain Technology. Ijrasct Journal for Research in Applied Science and Engineering Technology. DOI Link: <https://DOI.org/10.22214/ijrasct.2022.39833>.
- [11] Reichenbach, F., Walther, M. Signals in equity-based crowdfunding and risk of failure. Financ Innov 7, 54 (2021). <https://DOI.org/10.1186/s40854-021-00270-0>
- [12] Bouncken, Ricarda & Komorek, Malvine & Kraus, Sascha. (2015). Crowdfunding: The Current State of Research. International Business & Economics Research Journal. 14. 407-416. 10.19030/iber.v14i3.9206.