

Crowdfunding Using Blockchain

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Abstract: *The turns of events in Web3 technology involves redefining online interactions by decentralizing applications and eliminating mediator. This paper details the turns of events in Web3-based crowdfunding platform utilizing Ethereum blockchain technology. The system incorporates Solidity Base smart contracts to ensure donation processes are secure, transparent, and efficient. Users can securely connect their MetaMask wallets for Ethereum transactions, allowing them to create campaigns, explore projects, and contribute funds through an intuitive and accessible platform. ThirdWeb streamlines the deployment and management of smart contracts, while Ethers.js enables blockchain interactions within the React and Tailwind CSS-driven frontend. The proposed system eliminates traditional crowdfunding restrictions, such as lack of central management, by providing high transaction fees, lack of transparency and decentralized alternatives. The platform includes essential functionalities such as campaign creation, donation tracking, and real-time transaction updates, enhancing user experience and trust. Thorough testing and user feedback emphasize the system's benefits over conventional crowdfunding platforms, such as lower transaction costs, improved security, and real-time tracking of Ethereum transactions. By using Web3 principles, the system provides a scalable, transparent and efficient solution for crowdfunding. Future developments will aim to integrate support for multiple blockchain networks and enhance accessibility for everyday users. This research contributes to the increasing adoption of decentralized financial applications and showcases the potential of blockchain-driven crowdfunding solutions.*

Keywords: Web3 technology

