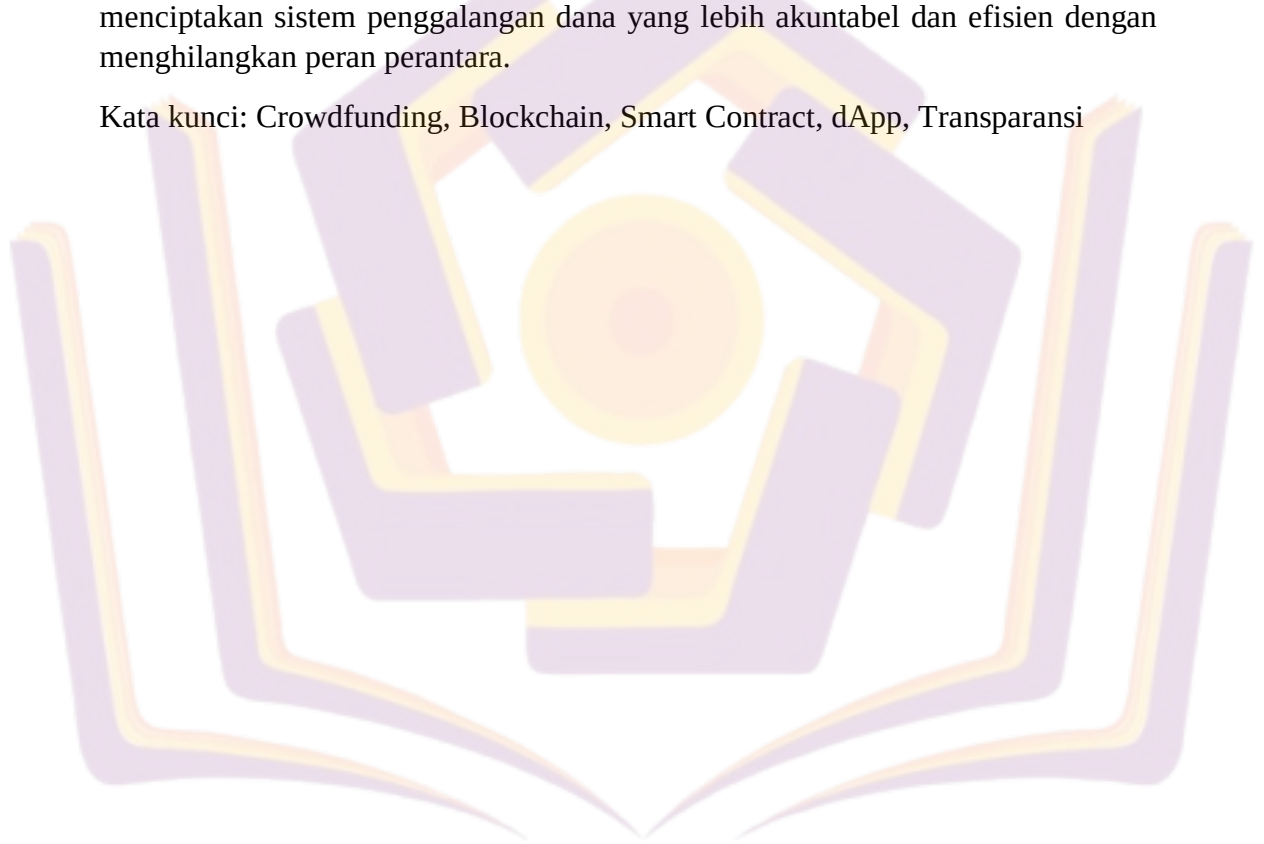


INTISARI

Penelitian ini bertujuan untuk merancang dan membangun purwarupa aplikasi crowdfunding terdesentralisasi (dApp) guna mengatasi masalah transparansi dan sentralisasi pada platform konvensional. Menggunakan metode Waterfall, purwarupa ini berhasil diimplementasikan secara full-stack dengan mengintegrasikan smart contract berbasis Solidity dan antarmuka pengguna berbasis Next.js. Hasil pengujian unit, integrasi, dan sistem (black-box) menunjukkan bahwa semua fungsionalitas utama seperti pembuatan kampanye, donasi, dan penarikan dana berjalan sesuai dengan rancangan. Kesimpulannya, purwarupa ini berhasil membuktikan bahwa teknologi blockchain mampu menciptakan sistem penggalangan dana yang lebih akuntabel dan efisien dengan menghilangkan peran perantara.

Kata kunci: Crowdfunding, Blockchain, Smart Contract, dApp, Transparansi



ABSTRACT

This research aims to design and build a decentralized crowdfunding application (dApp) prototype to address the problems of transparency and centralization in conventional platforms. Using the Waterfall methodology, this prototype was successfully implemented full-stack by integrating a Solidity-based smart contract with a Next.js-based user interface. The results from unit, integration, and black-box system testing demonstrate that all core functionalities, such as campaign creation, donation, and fund withdrawal, perform according to the design. In conclusion, this prototype successfully proves that blockchain technology can create a more accountable and efficient fundraising system by eliminating the role of intermediaries.

Keywords: Crowdfunding, Blockchain, Smart Contract, dApp, Transparency

