

BEYOND TRUST: Blockchain Enabled Transparent Charity System

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Abstract: *Modern interconnected society creates ongoing challenges to charitable giving because donors need greater assurance of transparency and financial accountability. A new Ethereum-based solution from our research removes intermediaries by establishing an application dedicated to charitable activities. The DApp provides an integrated system for traditional offers and conditional funding structures which operates on blockchain technologies at base level. A framework of Solidity smart contracts connects with React.js frontend components and Ethers.js implements the blockchain communication protocols to deliver a smooth donor transaction process. The platform features milestone-based withdrawals that functions to distribute crowdfunded money after specific campaign targets have been reached thus building transparent reporting. The system gives contributors complete control between funding registered organizations directly and specific projects where each financial transaction is recorded permanently on the blockchain ledger. The unbending nature of blockchain as a record system provides historic visibility for all charitable transactions. Through distributed ledger technology implementation our framework provides donors both simple donation processes and a modern model for reliable philanthropic activities which allow full monitoring of every charitable contribution.*

Keywords: Blockchain, Decentralized Application, Smart Contracts, Ethereum, Charity Crowdfunding, Transparent Donations, Ethers.js, Solidity, Web3, Milestone-Based Fund Release

