Securing Charity Donation System using Blockchain

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Abstract: Charities and non-profit organisations play a key role in tackling many social concerns and giving support to those in need in the modern digital era. However, because of problems including a lack of trust, accountability, and openness, managing charitable donations and making sure the allocation of cash is transparent can be difficult. This study suggests a blockchain-based charity donation management system as a solution to these problems. Blockchain, a distributed ledger technology, provides a clear, safe, and unchangeable method of keeping track of transactions. A wide range of parties will be involved in the system, including donors, charities, and beneficiaries. The funds will be accessible to charities using a private key, who will also have a public address where they can accept donations. For security reasons, user information and the money will be encrypted using the SHA-256 technique and stored in database. The technology will also offer real-time donation tracking so that contributors can monitor how their money is being used.

Keywords: Block chain, Secure Hash Algorithm-256, Encryption

BIBLIOGRAPHY

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