

Blockchain Based E-voting System

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Abstract: *An electronic voting (e-voting) system must prioritize security to prevent duplicate votes and ensure full transparency, participants. unreliability, all while safeguarding the privacy of Traditional voting systems suffer from lacking assurance that cast votes remain unaltered before being counted. Additionally, there is a lack of transparency between voters and the system. In response to these challenges, we propose leveraging blockchain technology as a foundational element in the voting system. The primary goal is to establish a decentralized architecture that supports an open, fair, and independently verifiable voting scheme. Within this framework, we introduce a novel e-voting protocol that harnesses blockchain as a transparent ballot box.*

Keywords: Reliability, transparency, e-voting system, decentralized