#40391 Summary

Submission

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EDIT METADATA

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Bio Statement	Rohan Das is a committed computer science student who is presently doing his M.Sc. in Computer Science and Applications from Christ (Deemed to be University) at Bengaluru. His Interest for the subject Computer science was kindled during his undergraduate studies at the Maharashtra Institute of Technology, Pune, which is the place where he laid the foundation of his skills. He also adores front-end as well as back-end development. Rohan concentrates on building applications by investigating both of those aspects.

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Title and Abstract

Title	Smart Contract Based e-Voting System with Selfdestruction for Security in Blockchain
Abstract	The introduction of e-Voting systems is a serious challenge for many countries, with the main goal of improving the quality of elections being at the center. Nevertheless, the security issue has been one of the greatest challenges that has limited the adoption on a wide scale since large-scale elections are concerned. This article deals with authentication, data security, and transparency issues related to e-Voting and puts forward a novel Application of Blockchain Technology. The study suggests a way out for the implementation of Ethereum based blockchain e-Voting system which features automated elections processes as well as the safekeeping of voter data alongside transparency. Features that are worth noting include the use of smart contracts and the Proof of Authority (PoA) mechanism for secure transactions and efficiency. Besides that, the system features also include the destruction of the votes to ensure the anonymity of the voters, a cornerstone of democratic voting.

Indexing

Academic discipline and sub-disciplines	Computer and Informatics
Keywords	Blockchain Ethereum Smart Contracts e-Voting Proof of Authority (PoA) Self-destruct EVM
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Supporting Agencies

Agencies	—

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