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5.1
Problem Statement
Blockchain technology can be used in the E-voting system to conduct a fair election and reduce injustice.
The physical voting systems have many flaws in it as well as the digital voting systems are not perfect enough to be implemented on a large scale.
Our aim here is to create a private network responsible for storing and maintaining blockchain. Upon this network, develop a decentralized blockchain based Voting System system based on smart contract which is the optimum solution for frauds, forgery, human error, traceability, stagnancy occurring in the current system providing enhanced security, privacy, efficiency and speed in the Voting process.
5.1.1
Goals and Objectives
To design a decentralized e-voting system that,
1. Reduces human interaction in the process of voting and elections in general.
2. Does not depend on a trusted third party for controlling the collected data, whilst still staying immune to attacks and guaranteeing user privacy.
3. Provides transparency, ensuring security and does not jeopardize voter privacy.
5.1.2
Scope
Blockchain technology has proven itself in recent years as a tamper proof solution to store information. When it comes to lack of trust in the system and possibility of cheating we can trust on blockchain. Blockchain is almost unhackable with traditional techniques providing exceptional security. The goal of this project is to reduce corruption and conduct fair elections. The scope currently is to provide the proof of concept and then scale it. Also in order to scale it we need to do the potential tradeoffs to optimize performance and reduce the harm it causes to the environment. Using efficient algorithms to reduce the number of calculations required.
5.2
Major Constraints
1. The application should be able to manage a high amount of requests and transactions while maintaining the correctness of the results.
2. The application must also ensure that the identities and personal information of the users are safeguarded.
3. The systems must be usable by all users, regardless of their technological abilities or accessibility requirements.
5.3
Expected Outcome
1. Promote transparency in the electoral process.
2. Improve security by encrypting vote data and preventing unauthorized access.

3. All transactions are recorded on a public ledger that cannot be altered, which can also help to prevent tampering with voting results.
4. The automation of numerous electoral processes, such as vote counting and auditing.
5.4
Applications
1. A decentralized voting application can be used for corporate governance, allowing shareholders to vote on crucial issues such as mergers, acquisitions, and board appointments.
2. A decentralized voting application can be used for public opinion polls, allowing people to voice their views on political, social, and economic topics in a secure and anonymous manner.
3. A decentralized voting application can be used in community governance, allowing members of a community to vote on crucial choices such as community initiatives, resource allocation, and public works.
4. Referendums can be held using a decentralized voting application, which allows citizens to vote on key matters such as constitutional amendments, changes in public policy, and large infrastructure projects.

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