PROJECT DEVELOPMENT PHASE

Date	04 November 2023
Team ID	NM2023TMIDO2239
Project Name	Electronic Voting System
Maximum Marks	4 Mark

NUMBER OF FUNCTIONAL FEATURES INCLUDED IN THE SOLUTION

The search results provide information on various blockchain-based electronic voting systems and their features, but there is no specific number of functional features mentioned in the question or the search results. However, based on the information provided in the search results, here are some of the common features included in blockchain-based electronic voting system

- Self-cryptographic validation structure among transactions (through hashes)
- Public availability of distributed ledger of records
- Preservation of anonymity
- Decentralized and publicly distributed ledger of transactions across all the nodes
- Security and tamper-proof system
- Verification and auditing of the results
- Accessibility to all eligible voters, regardless of their location or physical abilities
- Efficiency and high performance

These features are crucial in ensuring the success of a blockchain-based electronic voting system. However, the specific number of functional features included in a particular system may vary depending on the design and requirements of the system.
Based on the search results, here are some additional points related to the electronic voting system for blockchain:

- The use of blockchain technology for electronic voting systems is actively being researched, and recent proposals have shown that it is applicable.
- There are several requirements that need to be met for an electronic voting system to be successful, including transparency, security, verifiability, efficiency, anonymity, and accessibility.
- Blockchain-based electronic voting systems have the potential to address some of the challenges faced by traditional electronic voting systems, such as vote rigging, hacking, and election manipulation.
- However, there are also new risks associated with utilizing public cryptocurrency blockchains for e-voting schemes, and it may be more advantageous to research e-voting specific blockchain technologies instead of utilizing existing cryptocurrency blockchains.
- The security criteria claimed by blockchain-based e-voting systems are being discussed in the literature, and there have been instances where flaws have been found that allow attackers to change cast votes.

- The design of e-voting systems on relatively newly developed blockchain technologies is an area of active research.
- The requirements of an e-voting system include not only technical aspects but also legal and social aspects.
- The use of blockchain technology can provide a transparent and tamper-proof way to conduct elections, but it is important to ensure that the system is accessible to all eligible voters and that their privacy is protected.
- The time complexity of e-voting schemes utilizing cryptocurrency blockchain such as Bitcoin or Ethereum can be a challenge, and it is important to ensure that the system is efficient and runs at the highest possible performance.