**LITERATURE REVIEW**

1. The research paper titled "E-Voting System using Blockchain Technology: A Review" by M. M. Uddin et al. (2021) presents a comprehensive review of e-voting systems that utilize blockchain technology. The authors aim to provide an overview of the existing literature, approaches, and challenges related to the application of blockchain in e-voting.

The paper begins by discussing the limitations of traditional voting systems, such as security vulnerabilities, lack of transparency, and potential for manipulation. It highlights the potential benefits of integrating blockchain technology into e-voting systems, such as immutability, decentralization, and enhanced security. The authors review various e-voting systems based on blockchain, examining their key features, such as privacy, verifiability, and scalability. They discuss different aspects of these systems, including the use of cryptographic techniques for vote encryption and decryption, consensus algorithms for validation, and smart contracts for automation. The paper also addresses the challenges and open research areas in the field of blockchain-based e-voting systems. It discusses concerns related to scalability, privacy, regulatory compliance, and user adoption. The authors emphasize the need for further research and innovation to overcome these challenges and make blockchain-based e-voting systems more practical and accessible. Through their comprehensive review, the authors conclude that blockchain technology has the potential to revolutionize the e-voting landscape by providing enhanced security, transparency, and integrity. They highlight the importance of addressing the challenges and limitations to ensure the practicality and widespread adoption of blockchain-based e-voting systems. In summary, this research paper offers a thorough review of e-voting systems utilizing blockchain technology. It serves as a valuable resource for researchers and practitioners in the field, providing insights into the current state of the art, challenges, and future directions in the application of blockchain for e-voting systems.

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In their system, a blockchain network is utilized to store and validate voting transactions. Each voter is assigned a unique digital identity, and their votes are recorded as transactions on the blockchain. The authors emphasize proposed the importance of maintaining voter privacy and propose the adoption of cryptographic techniques to achieve anonymity while ensuring verifiability. The paper highlights the advantages of using blockchain technology in e-voting systems, including immutability, transparency, and resistance to tampering. It discusses the use of consensus algorithms, such as Proof of Work or Proof of Stake, to ensure the integrity and validity of the voting process. The authors also address the issue of scalability in blockchain-based systems and propose potential solutions. The authors provide a detailed description of the design and implementation of their e-voting system, including the architecture, smart contracts, and user interfaces. They validate the system's effectiveness through testing and analysis, demonstrating its ability to improve security, transparency, and efficiency compared to traditional voting systems. In conclusion, this research paper contributes to the field of e-voting systems by presenting a design and implementation of an e-voting system based on blockchain technology. The proposed system offers enhanced security, transparency, and efficiency in the voting

process, providing a foundation for further research and development in the area of blockchain-based e-voting systems.