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Blockchain Based E-Medical Data Storage for Privacy Protection

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Abstract

Electronic Medical Data (E-Medical Data) is sensitive and the privacy should be preserved. E-Medical Data is easily stolen, altered, or even deleted entirely. Accordingly, the healthcare organizations must guarantee that their medical data is treated confidential, secure, and private. If the situation happens like medical data cannot be logged or retrieved reliably, which delays treatment progress and even endangers the patient's life. Conventional method of medical data storage led to threatening of data by the attackers. Many medical applications face security problems like data stealing. Blockchain technology provides a solution to the security issue in many applications. As, the Blockchain features such as decentralization, cryptography-based security, immutability, and consensus algorithms open a solution to store e-medical data in a secure way with blocks and shared key. Our work highlights the decentralized E-medical data storage with consensus algorithms and its performance.

Keywords

Medical data Blockchain Consensus algorithm

Security attacks

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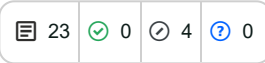
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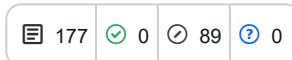
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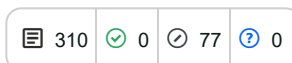
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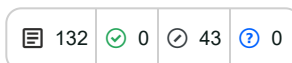
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