IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 1, March 2024

Health Chain Connect

Mr. Prasad Sonawane¹, Mr. Anup Sonawane², Miss. Aditi Pahadi³, Miss. Chandrakala Mahale⁴, Mr. Rohan Lokhande⁵, Miss. Devyani Girase⁶

Lecturer and HOD, Department of Computer Engineering¹ Students, Department of Computer Engineering^{2,3,4,5,6} Mahavir Polytechnic, Nashik, Maharashtra, India

Abstract: Electronic medical records are medical records of patient stored digitally on the internet. Patient information is stored in the blockchain, and this information is stored as a block of data in the blockchain. Encrypted using the AES algorithm used to encrypt all patient data. Blockchain networks are used in healthcare to exchange patient information and increase the efficiency, security, and transparency of medical information sharing in healthcare. Security, decentralized and transparency, the three main features of blockchain technology, make all applications secure and inaccessible to unauthorized persons.

Keywords: Medical records, Blockchain, Data encryption

REFERENCES

- [1]. IDC. [online]. Available at: https://www.emc.com/analyst-report/digital-universe-healthcare-vertical-reportar.pdf
- [2]. Trisha Torrey. [online]. URL: https://www.verywellhealth.com/who-has-access-to-your-medical-records-2615502
- [3]. G. Kamau, C. Boore, E. Maina and S. Njenga, Blockchain technology: Is this the solution for developing countries to solve interoperability and security issues of electronic health information? - 2018 IST-Africa Week Conference (IST-Africa). IB, 2018, p.
- [4]. Hyperledger model. [online]. Available at: https://www.hyperledger.org/projects/fabric
- [5]. NIST, "Guidelines for the Design and Evaluation of Process-Based Access Control (ABAC)," Tech. Representative NISTSpecial Publication 800-162, 2014.
- [6]. Wikipedia Contributor, -Alpha (xacml) Wikipedia, the free encyclopedia, 2018. [online]. New information: https://en.wikipedia.org/wiki/ ALFA(XACML)
- [7]. 1ty.me. [online]. Available: https://1ty.me/
- [8]. [Online]. Retrieved from: http://www.my-signals.com/
- [9]. Wikipedia Contributor, "Hyperledger" Wikipedia, the free encyclopedia, "https://en.wikipedia.org/wiki/Hyperledger, 2019.
- [10]. [Online] Available at: https://www.nist.gov/news-events/news/2015/08/nist-releases-sha-3-cryptographic-hash-standard.

