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(57) Abstract :

Real-time health monitoring and data access made possible by Internet of Things (IoT) in healthcare increase patient health, experience, and operational efficiency. The healthcare data of the patient is very sensitive data to be protected in the aspect of patient privacy. The present invention disclosed herein is a secured authentication system for healthcare data protection using blockchain and fog computing comprising of: user (101), registration (102), admin (103), permission (104), fog nodes (105), blockchain-contract (106), and cloud server (107); used to store and maintain the healthcare data securely. The present invention disclosed herein uses blockchain technology to protect the healthcare data present in the cloud server. Also it allows the healthcare growider to access the data remotely from the internet of things (IoT) devices securely. The user authentication scheme in the present disclosure uses blockchain enabled fog nodes to store and accesses the healthcare data of cloud server. The present invention preserves the data from attackers, data is encrypted before stored in the server and decrypted while accessing the data.

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