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Confidential Health Records of Stigma Diseased Patients using Blockchain Technology

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Abstract: The abstract provides an overview of a proposed solution to create a secure and unchangeable platform for storing health records and related supplementary data. The solution aims to address concerns regarding the security of health records, user data ownership, and data integrity by leveraging blockchain technology. The system will incorporate precise access controls, empowering patients with greater authority over their electronic health records. To access the system, patients will need to register and generate a confidential key using their provided credentials. This design ensures that only authorised personnel can access patients' private health information, minimising the risk of unauthorised access and potential breach of confidentiality. Additionally, the utilisation of blockchain technology adds an extra layer of security by ensuring the immutability of data, thereby safeguarding the integrity of patients' records. Various blockchain-based systems have been proposed for managing electronic health records, and this solution carries significant implications for the healthcare industry.

Keywords: Blockchain, digital health, stigma diseased patients, Cloud Computing, security, e-health data, secure communication, confidentiality

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