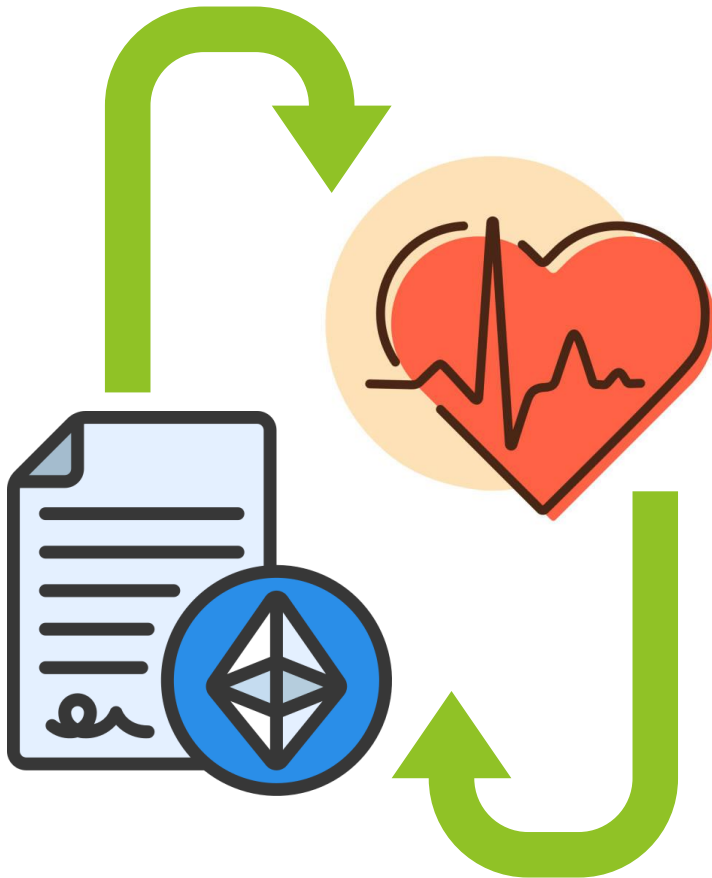


SMART CONTRACT IN HEALTHCARE



NAME: SUBHA CHAKRABORTY
ENROLLMENT NO: 12020002011014
CLASS ROLL: 27
STREAM: CSE(AIML)
YEAR: 4TH

What are Smart Contracts?

“Smart contracts are simply programs stored on a blockchain that run when predetermined conditions are met. They typically are used to automate the execution of an agreement so that all participants can be immediately certain of the outcome, without any intermediary’s involvement or time loss. They can also automate a workflow, triggering the next action when conditions are met.”

– *IBM smart contract definition*

How does a SMART CONTRACT WORK?



What is the project about?

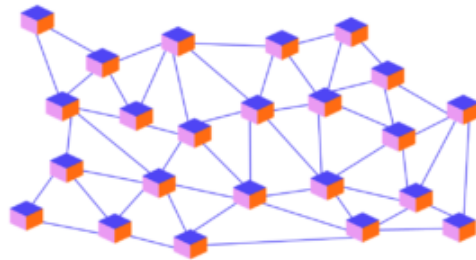
This project aims to be a user-friendly and secure healthcare data management system that utilizes smart contracts, allowing the collection and storage of essential patient, doctor, and hospital information in a reliable and tamper-proof manner. Users can easily input their data into the system, which ensures data security through blockchain technology. When needed, information can be efficiently retrieved and displayed, simplifying healthcare record management for patients, doctors, and hospitals alike. It offers a convenient and trustworthy solution for healthcare data management in the digital age.

TECH STACK:



Advantages of Smart contract in healthcare?

- 1.Immutable and Secure:** Smart contracts on the blockchain make data almost impossible to change or delete, ensuring that important medical records remain trustworthy.
- 2.Better Security:** Blockchain technology uses strong encryption and security methods, reducing the chances of data breaches and unauthorized access. Patients' private information is kept safer.
- 3.Decentralization:** Data isn't kept on one central server; but is distributed in nature. This makes it less likely for all the data to be lost or damaged due to a single point of failure.
- 4.Detailed Record Keeping:** Smart contracts keep thorough records of any changes or access to data. This can be really useful for following rules and maintaining regulations related to data updation.



Conclusion

In conclusion, using smart contracts for healthcare records has some big benefits. It ensures data integrity through immutability and enhances security, safeguarding patient privacy.

Decentralization minimizes the risk of data loss due to single points of failure. It also makes things more efficient, reducing the need for lots of paperwork and saving money. And it keeps a detailed history of all the changes made to the records, which can be really helpful for following rules and maintaining regulations related to data updation. Overall, smart contracts in healthcare are a smart move for better, safer, and more efficient record-keeping in the healthcare industry.

