MEDIBLOCK– A Medical Record Management Platform using Blockchain

Project 32_Cohort 4

Team Mentor - Ravisha Sharma

Team Members -

Bhumika Mittal

Gargi Goel

Muskan Walia

Saujanya Raj

Kotapatti Jahnavi

AGENDA

Problem statement

India's Three-Tier Healthcare System is -
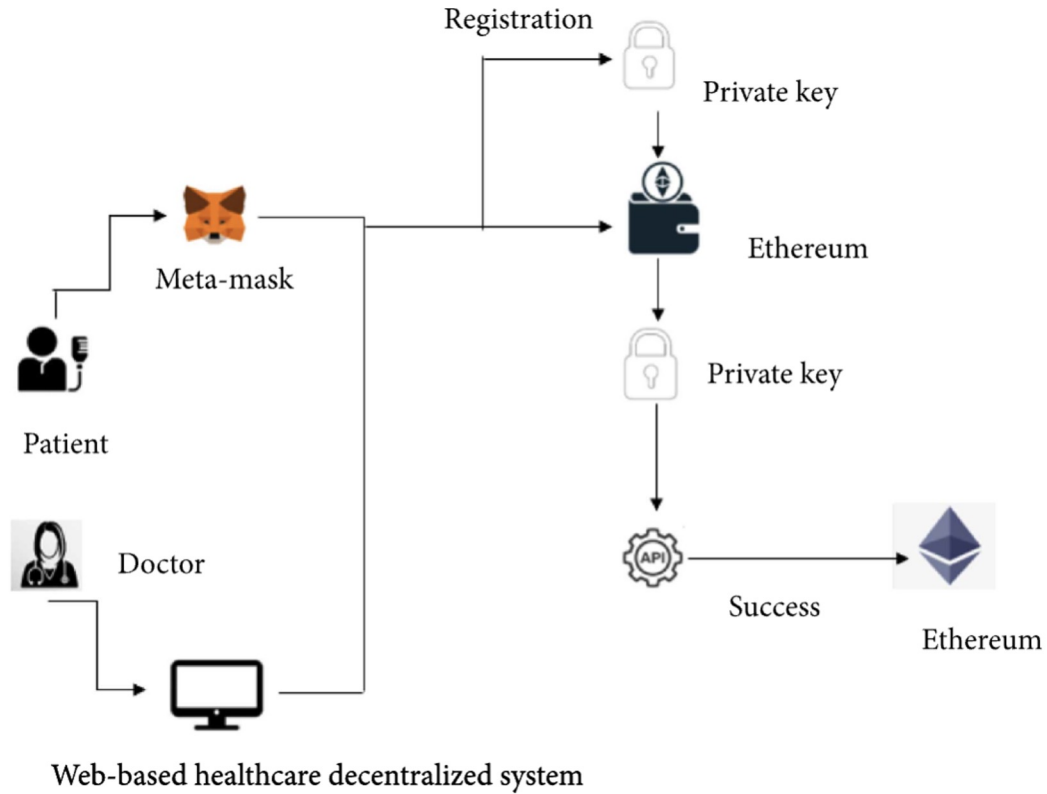
    a) Highly centralized and unorganized

    b) Depends on paper-based documentation

    c) Sensitive medical data sold to unauthorised parties

AGENDA

Proposed solution

a) A secure & decentralized medical record management platform using Blockchain

b) Secure storage of EHR on blockchain by defining granular access rules for the users

c) No one without access can see the data unless permission is granted

WORKFLOW

Registration

Private key

Ethereum

Private key

Meta-mask

Patient

Doctor

Success

Ethereum

Web-based healthcare decentralized system

TOOLS AND TECH STACKS

1. Metamask

2. Ganache
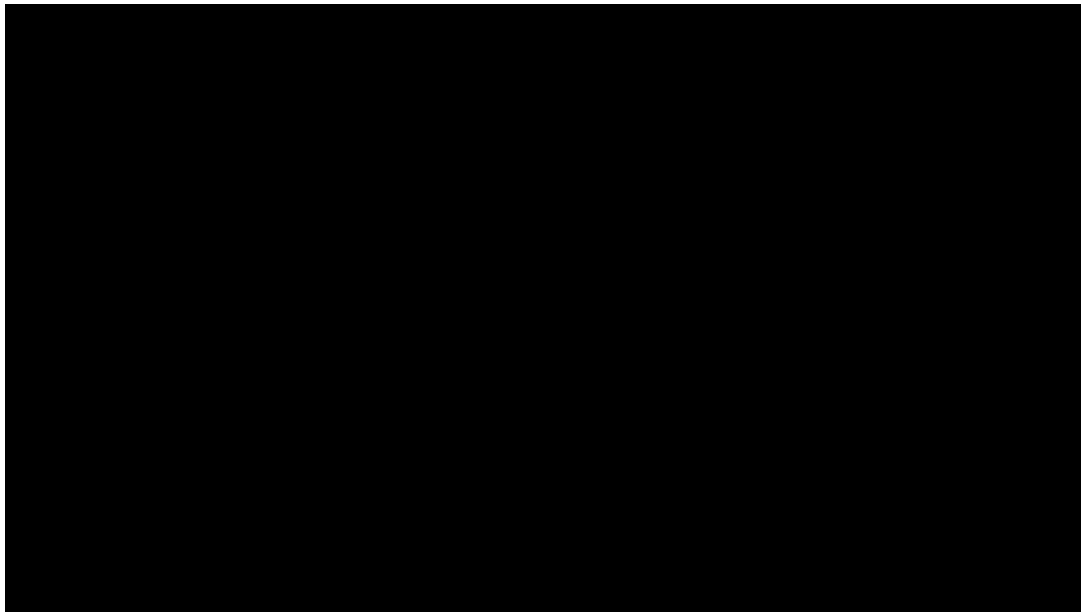
3. Solidity

4. IPFS

5. JavaScript

6. HTML

7. CSS

DEMO VIDEO

[demo link](#)

CHALLENGES

1. Integrating frontend with backend

2. Distributed team time management

3. Large database testing

4. Handling system compatibility and backend issues

LEARNINGS

1. New tech stacks like Solidity and JavaScript

2. Role of blockchain in information security

3. Importance of EHR and data security

4. Improved time management and teamwork skills

FUTURE SCOPE

1. Chatbot integration

2. Mobile app integration

3. Allowing patient to upload previous medical records

4. Cross-hospital data sharing

BENEFITS/USP

1. No need to carry any medical reports

2. Information is now secure, immutable & transparent

3. The patient is in control of their medical data

4. Healthcare industry can save up to $100-$150 billion/year by adopting blockchain

CONCLUSION

1. Secure & transparent data storage (Blockchain-based Solution)

2. Scope of future expansion

3. Valuable learnings in technical skills & healthcare data management

4. Transforming India's Healthcare System

METHODOLOGY

1. Tracking & maintaining the progress in a doc

2. Weekly meet-ups with our mentor, Ravisha

   a. Discussions about weekly targets & blockers

   b. Deciding next week targets

   c. Documenting the minutes of the meeting

3. Exploring the right resources with our mentor

THANK YOU