

TRAINING

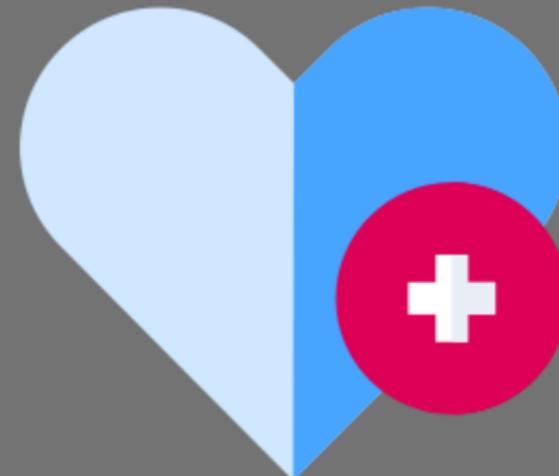


PROBLEM STATEMENT

SS45 Leveraging blockchain technology for creation of Electronic Health Record (EHR)

- **Accessing and Managing the privacy and security of patient data and history in clinical practices**

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



MedFork

The NextGen EHR

3 GOOD HEALTH
AND WELL-BEING



Prezi

HISTORY AND PRESENT OF EHR



- 1. Troubles in traditional way of storing health record ?***
- 2. Help of EHR and pros in EHR ?***
- 3. Cons in EHR ?***
 - **INTEROPERABILITY**
 - **DATA BREACHING**
 - **ACCESS PREFERENCE**

NEXT GENERATION OF **EHR**

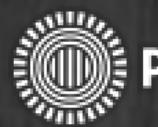
NEXT GENERATION OF **EHR**

1. Making medical records secure

2. Complete access to patient

3. Deletion of cons in EHR

- Easy access of medical record by patient
- Easy interoperability of medical records
- security of medical record is assured



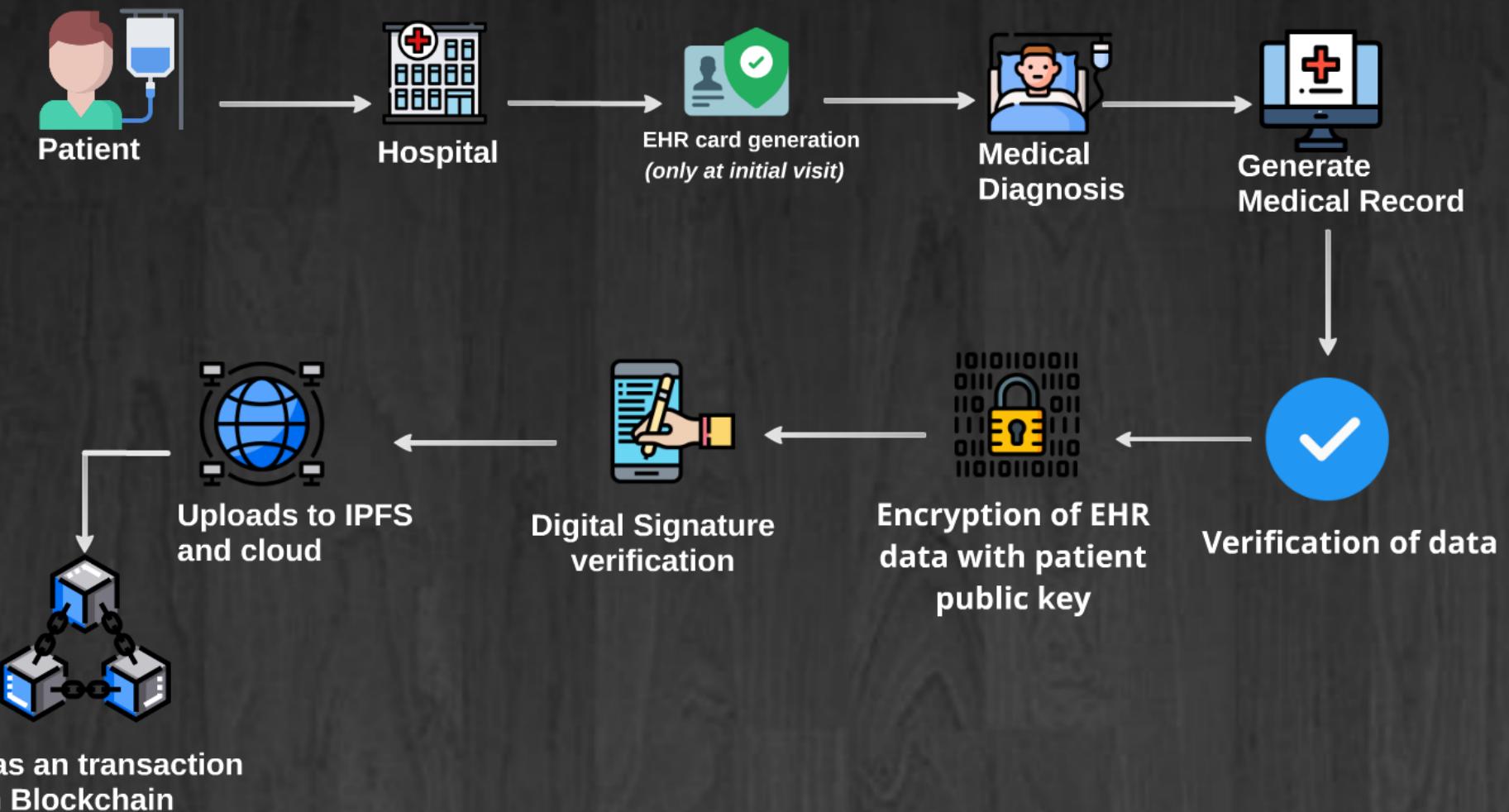
MedFork

THE NEXTGEN EHR

- Owner(patient) will be the master of their medical data.
- Solving privacy and security issues in existing EHR.
- Verification of EHR data without any interaction.
- Quick Sharing of Medical Data.



MEDICAL RECORDINGS

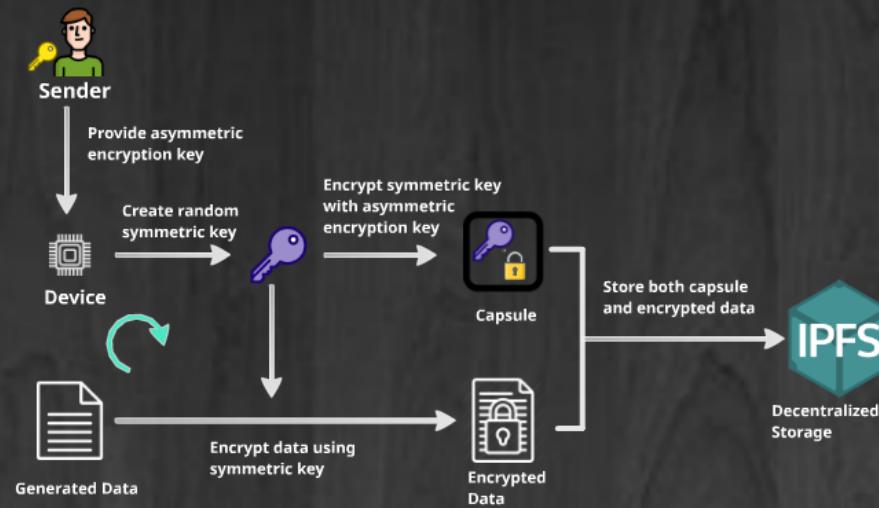


Adds as an transaction
in Blockchain



HOW DATA STORED IN DECENTRALIZED STORAGE ?

- Secure storage of encrypted data using capsule technique.
- Easy transfer of capsule by reproducing keys instead of modifying encrypted data.

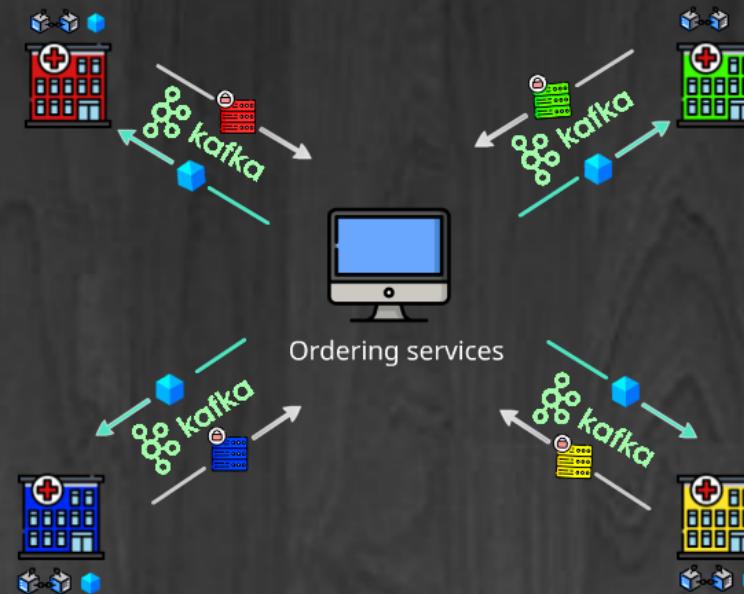


HOW ENCRYPTION TECHNIQUE WORKS ?



TRANSACTIONS AND ORDERING

- Easy maintenance of block.
- Proper and secure transmission of blocks to every hospital.



DAY-1

- Design the structure of UI.
- Defining Schema of Blockchain.
- Integration of Database.

DAY-2

- Dashboard for hospital, doctor and patient.
- IPFS uploading and retrieval.
- Encryption Technique.
- Data Sharing Mechanism.
- Ordering services and kafka.

DAY-3

- Multi-Node configuration
- Exporting Medical Reports
- Updations in UI.
- Updation in Data Sharing Technique.
- Worked on judges suggestion.

ACTORS IN OUR SYSTEM



Patient



Doctor



Government



Hospital



MedFork
The NextGen EHR



Pharmacy



Insurance

VISION

- We envision our project can enhance the continuity of cares as well as better integration of different healthcare services for benefits of individual patient.
- Many entities can act as member of our MedFork ecosystem to create bridge between patients and other sectors (Pharmaceutical Sector, Insurance Sector).
- Government, being the main actor of our ecosystem can analysis the overall medical data with ease for any pandemic situation or for general analysis.

ACTORS IN OUR SYSTEM



Patient



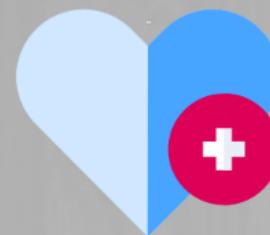
Doctor



Government



Hospital



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Pharmacy



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THANK YOU