PATIENT IDENTITY & DATA MANAGEMENT USING BLOCK CHAIN

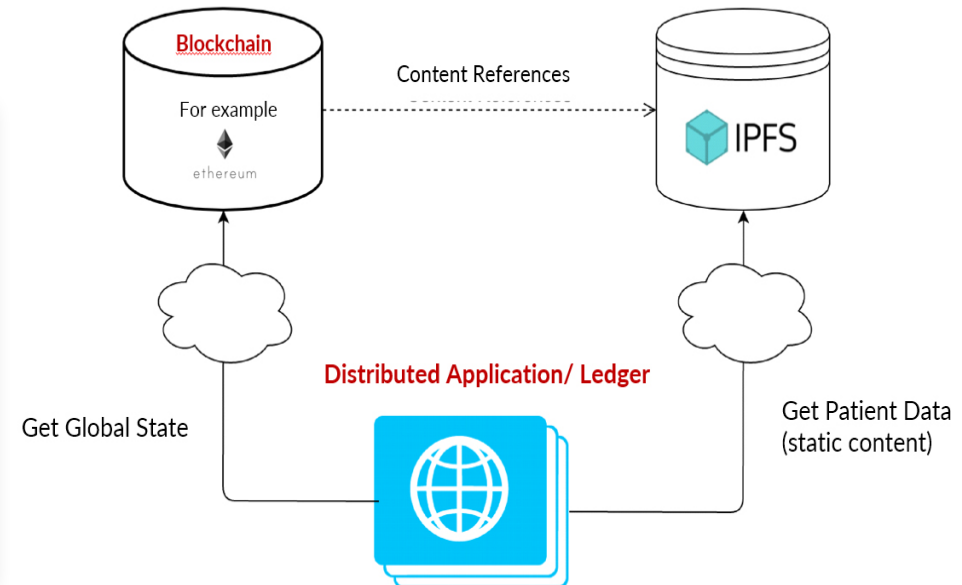CONSULTING – DEVELOPMENT – SUPPORT

ABOUT PROJECT

Our client from Europe, highlighted that interoperability is a challenge in Healthcare. Patient data does not travel with patients and remains with healthcare providers' databases. This creates information islands and healthcare providers are not able to access all of the patient's data when needed. Their idea was to create a system that intends to store optimum patient data centrally using Blockchain and provide ability for patients to assign time bound access to clinicians.

THE REQUIREMENT

- Access of Patient Records by Patient
- Control in Sharing of Patient Records for Patient
- Data not Available for Other Healthcare Providers
- Interoperability in Health Care in Critical

How Does IPFS Work in Blockchain?

Blockchain

For example

ethereum

Content References

IPFS

Distributed Application/ Ledger

Get Global State

Get Patient Data (static content)

" The solution enabledour client to securely share their data with various medical practitioners using Block Chain and provided access management to hospitals and doctors."

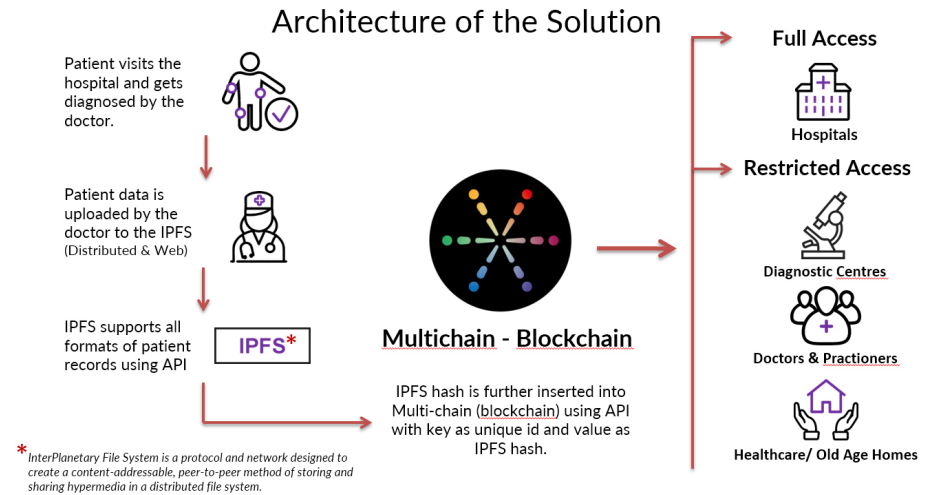# PATIENT IDENTITY & DATA MANAGEMENT USING BLOCKCHAIN

Industry
Healthcare

Etherium

Technology
Angular JS

THE SOLUTION

- Central Storage of Optimum Patient Data using Block-chain Technology
- Ability to Assign Time Bound Access to Clinicians by Patients
- Diagnosis Data Sharing using Block Chain (Vault)
- Scope for Doctors, Hospitals & Medical Institutions to Register
- Notification System to Notify Practitioners, Centers and Patients

Architecture of the Solution

Patient visits the hospital and gets diagnosed by the doctor.

Patient data is uploaded by the doctor to the IPFS (Distributed & Web)

IPFS supports all formats of patient records using API

IPFS*

Multichain - Blockchain

IPFS hash is further inserted into Multi-chain (blockchain) using API with key as unique id and value as IPFS hash.

*InterPlanetary File System is a protocol and network designed to create a content-addressable, peer-to-peer method of storing and sharing hypermedia in a distributed file system.

Full Access

Hospitals

Restricted Access

Diagnostic Centres

Doctors & Practioners

Healthcare/ Old Age Homes

THE BENEFITS

Ease in Access of Diagnosis

Highly Secured Service

Secure Access of Highly Confidential Information

Data Available to All Practitioners

HELIOS
SOLUTIONS