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VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE – 641 022.

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

GUIDE:
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(ASSOCIATE PROFESSOR)

MINI PROJECT REVIEW:

HEALTHCARE MANAGEMENT USING BLOCKCHAIN.

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- VISNUPIRIYAN (1801258)
- VENGATESH (1801267)

AGENDA:

- Problem Statement
- Solution, Scope and Application
- Software Requirement
- Use case Diagram
- Flow Chart
- Literature Survey
- Screenshots

PROBLEM STATEMENT:

In healthcare, Electronic health record(EHR)generally contain highly-sensitive and critical data related to patients, which is frequently shared among clinicians, radiologists, healthcare providers, pharmacists, and researchers, for effective diagnosis and treatment. Hence use suitable technology for accessing and managing the privacy and security of patient data and history in clinical practices.

SOLUTION AND SCOPE :

- The project aims at designing a prototype for a simple blockchain based application for EHRs that satisfies some requirements like information privacy, traceability, secure information access and sharing in a decentralized fashion.
- The prototype will be implemented with Hyperledger Fabric(HL Fabric) and will serve also as an access control system to manage identities, provide traceability and preserve the privacy of users and patients.
- The system could potentially be used as a backup for health companies and be used in extreme situation to ensure the continuity of treatment while preserving privacy and confidentiality.

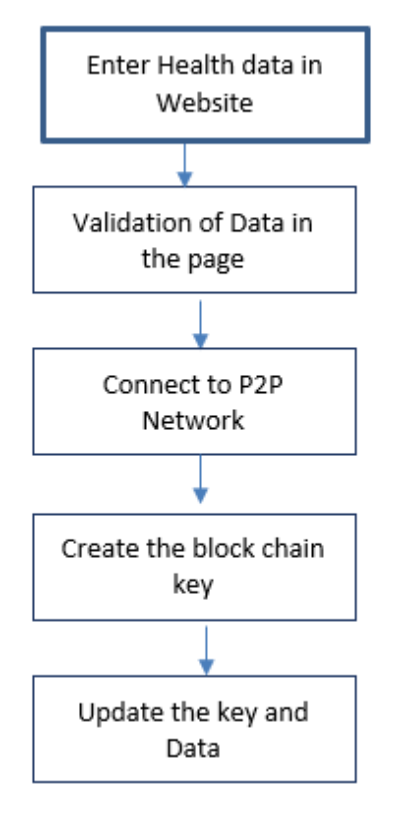
APPLICATION:

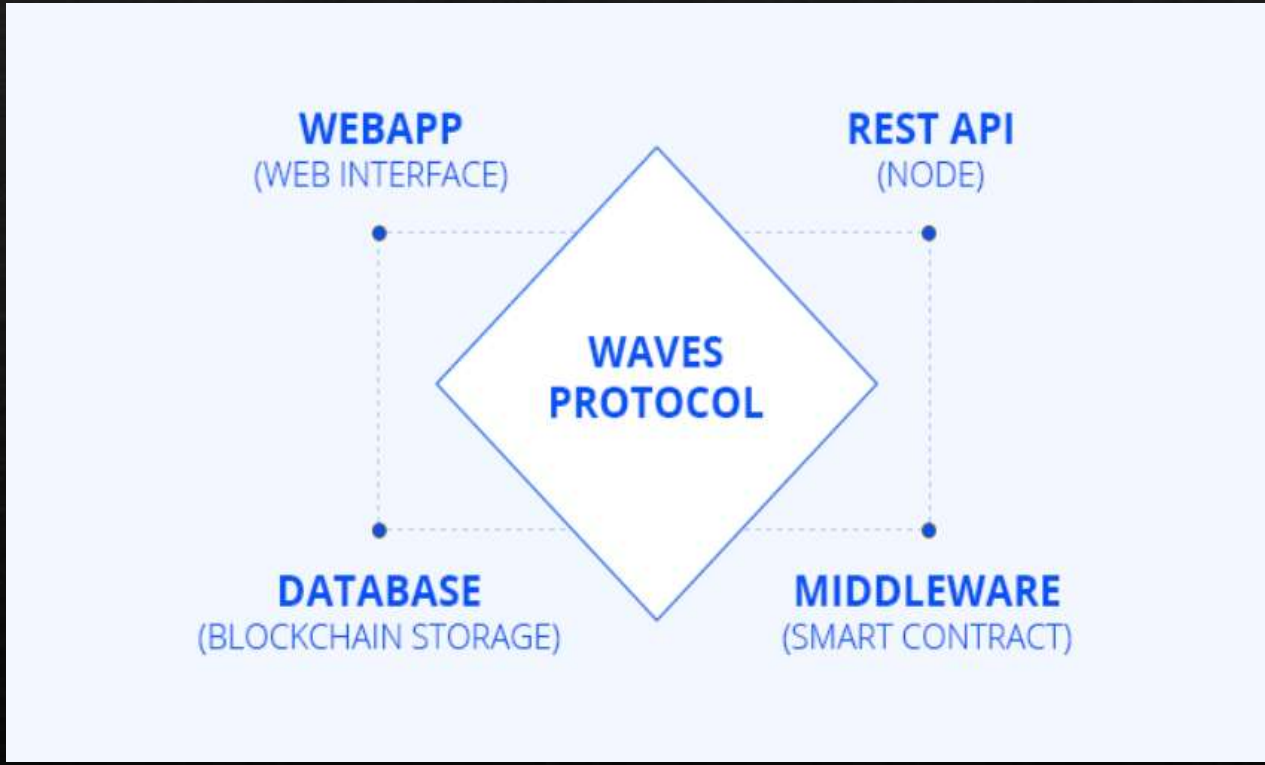
- Patients Navigation panel consists of Dash board, Book appointment, Appointment history, Medical history.
- Doctors Navigation panel consists of Dash board, Appointment history, Patients (Add and Manage), Search(By Name or Mobile No).
- Admin Navigation panel consists of Dash board, Doctors, Doctors session logs, User, User session logs, Reports, Patients search, Appointment history.
- Each of Tabs in navigation panel has its own specific functionalities.

SOFTWARE REQUIREMENTS:

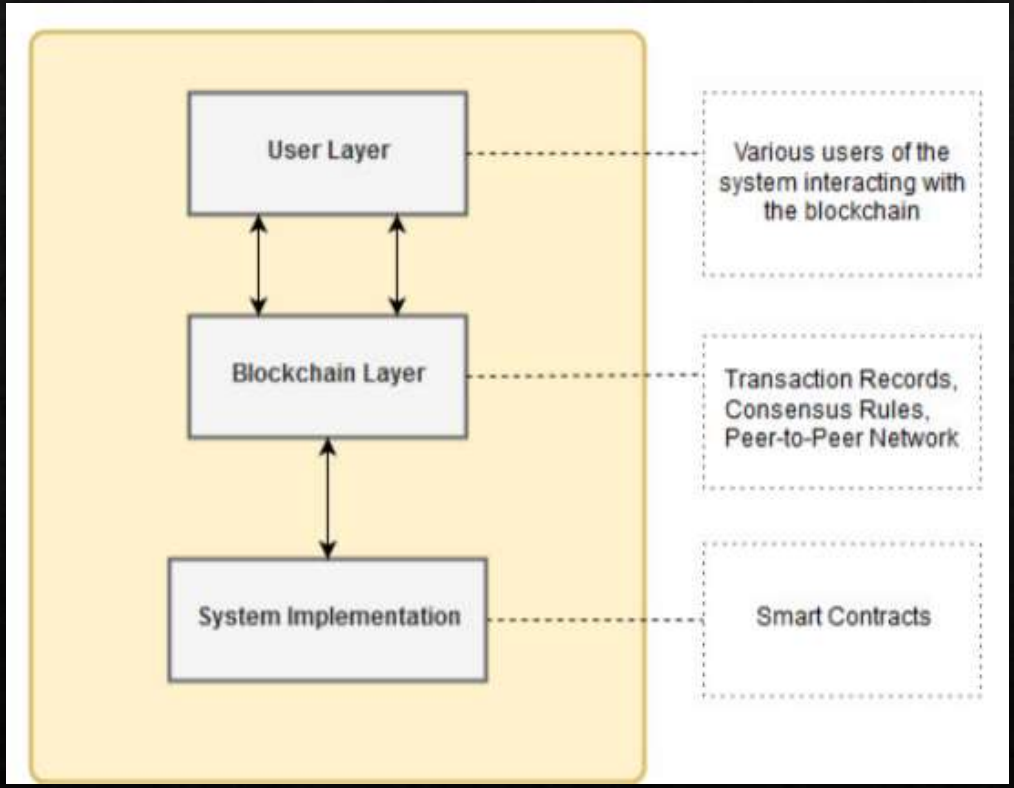
SNO	SOFTWARES USED
1.	HTML, CSS and PHP
2.	Windows 10(64 bits)
3.	Node Js and VS code
4.	Phpmyadmin

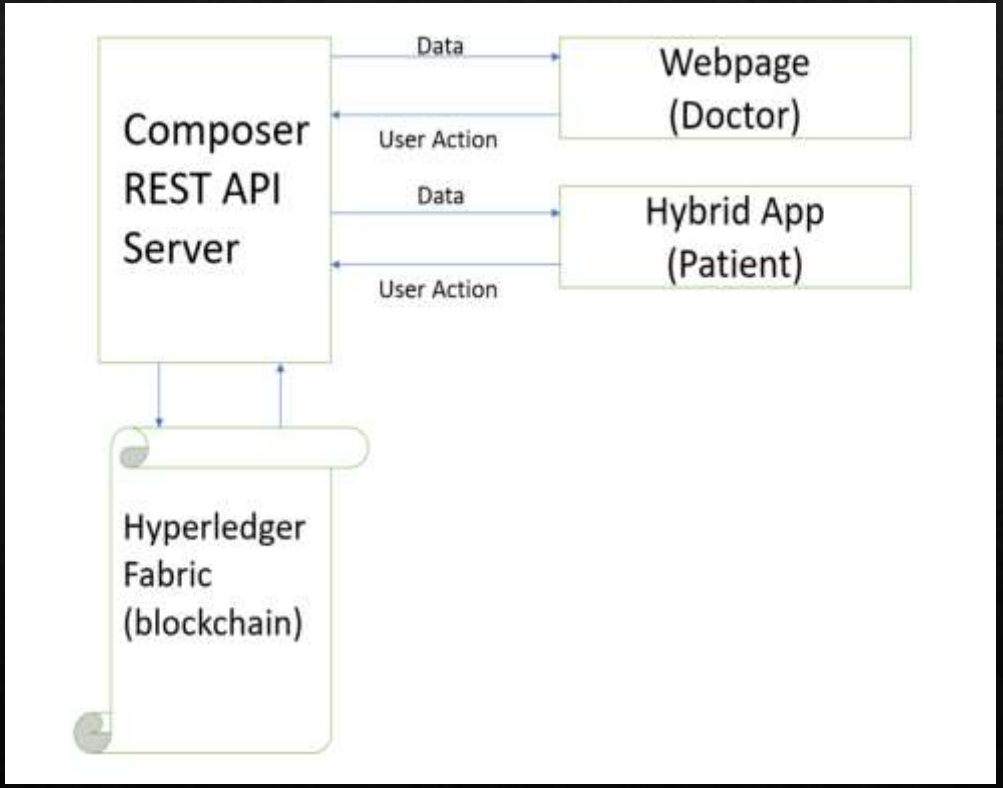
USECASE DIAGRAM:





FLOW CHART:

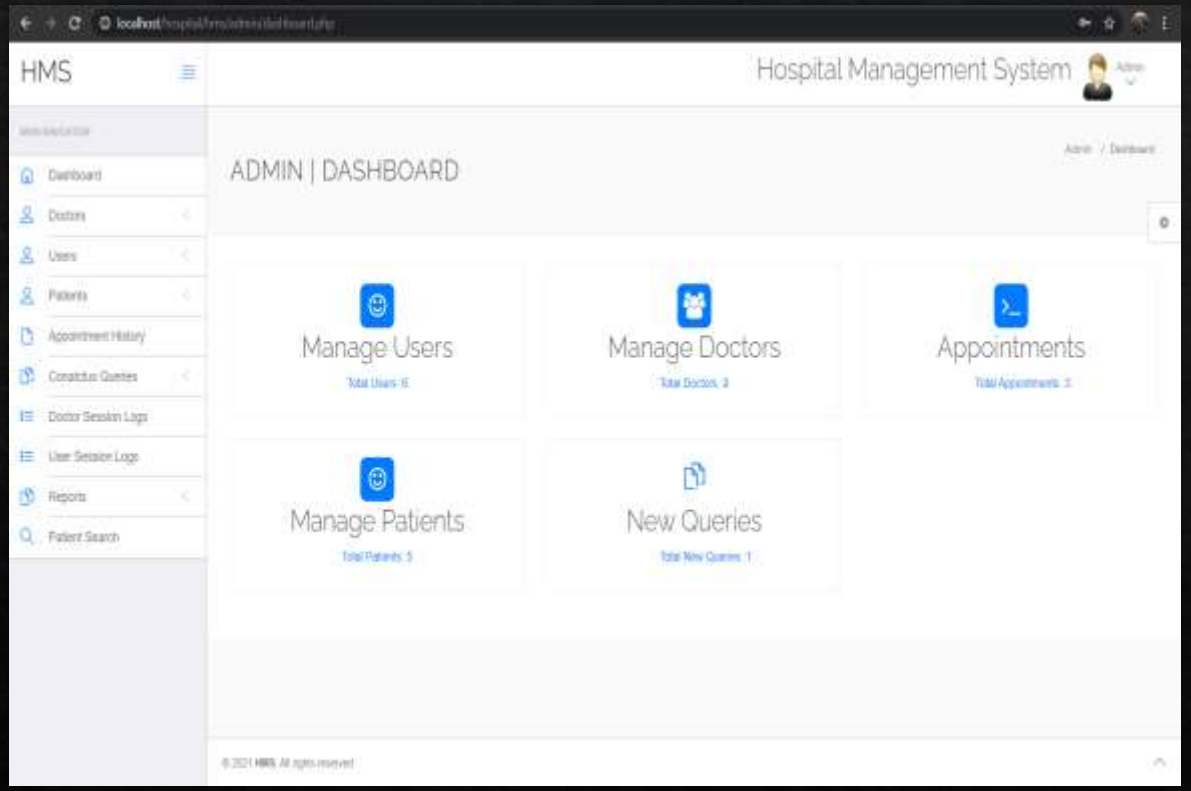

User Layer
Blockchain Layer
System Implementation
Various users of the system interacting with the blockchain
Transaction Records, Consensus Rules, Peer-to-Peer Network
Smart Contracts

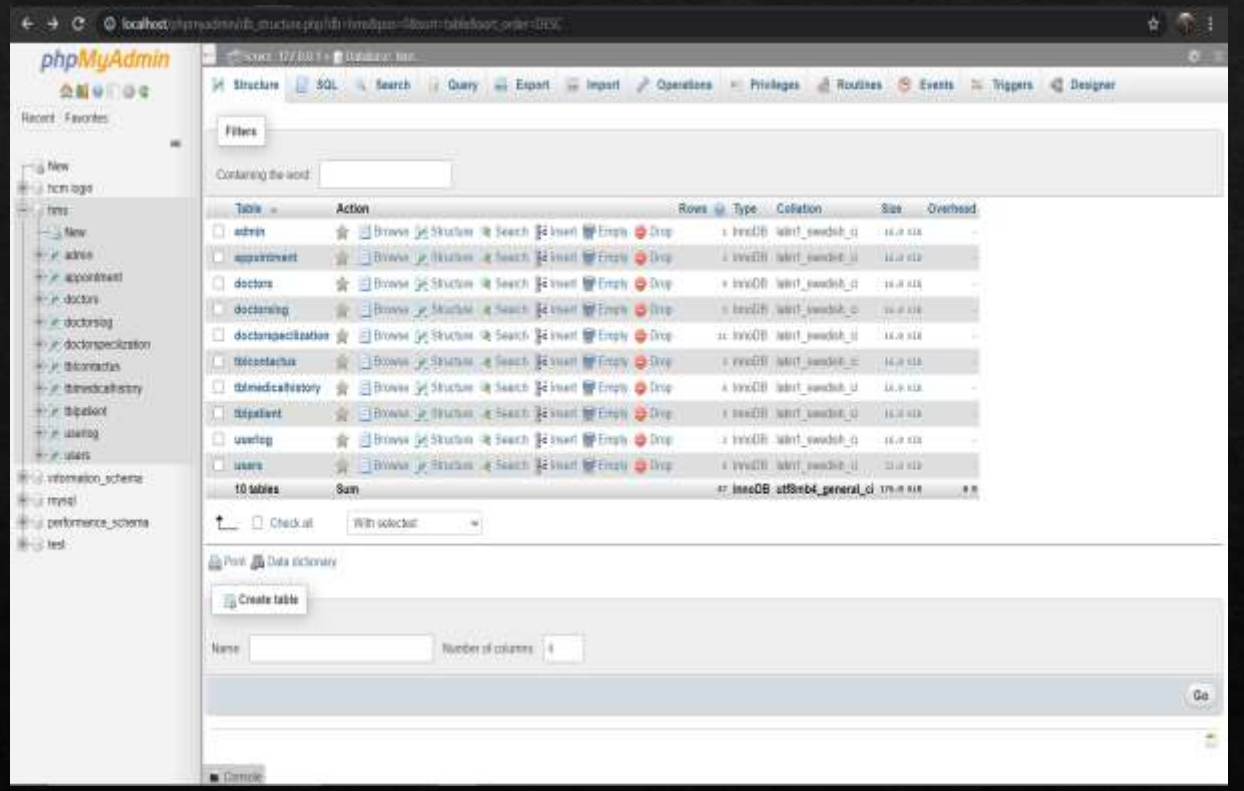

Composer REST API Server
Data
User Action
Webpage (Doctor)
Data
User Action
Hybrid App (Patient)
Hyperledger Fabric (blockchain)

LITERATURE SURVEY:

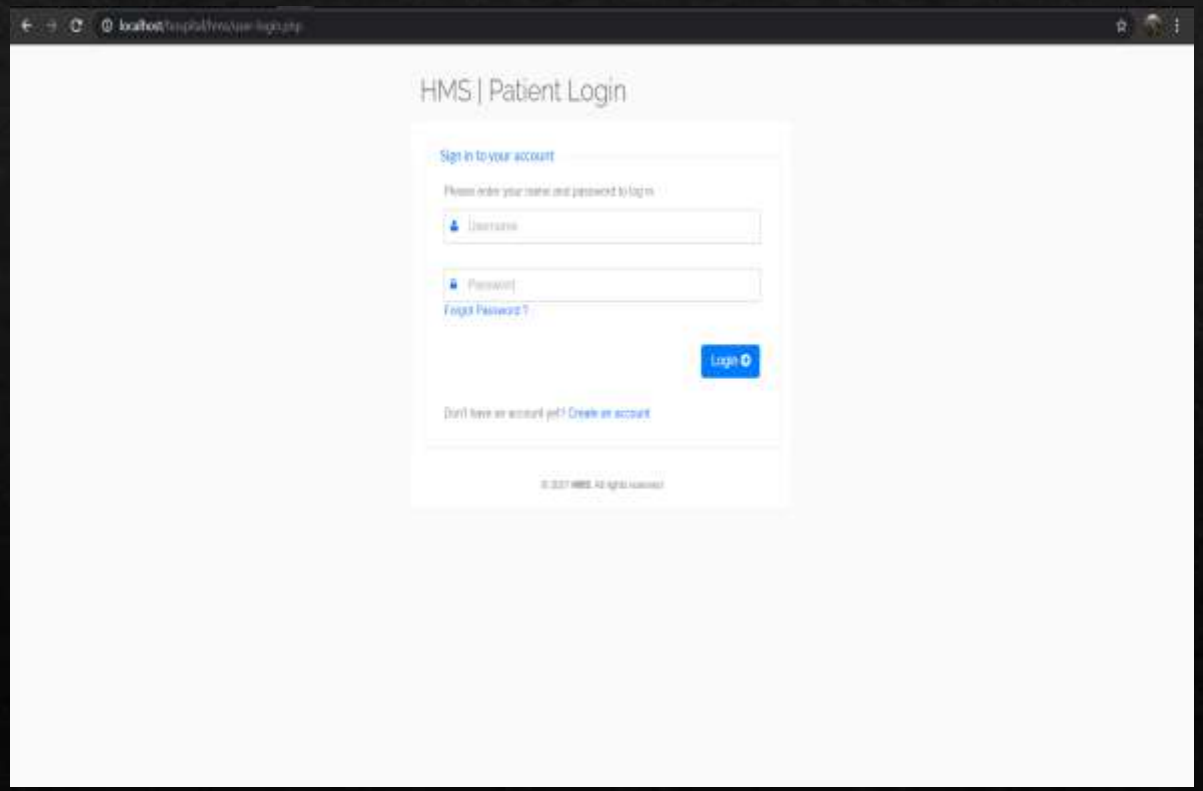
- https://www.projecttopics.org/design-implementation-health-care-management-system.html
- https://www.researchgate.net/publication/334587568_Interlinked_Hospital_Management_System
- https://www.javatpoint.com/blockchain-tutorial
- https://ieeexplore.ieee.org/document/7870552

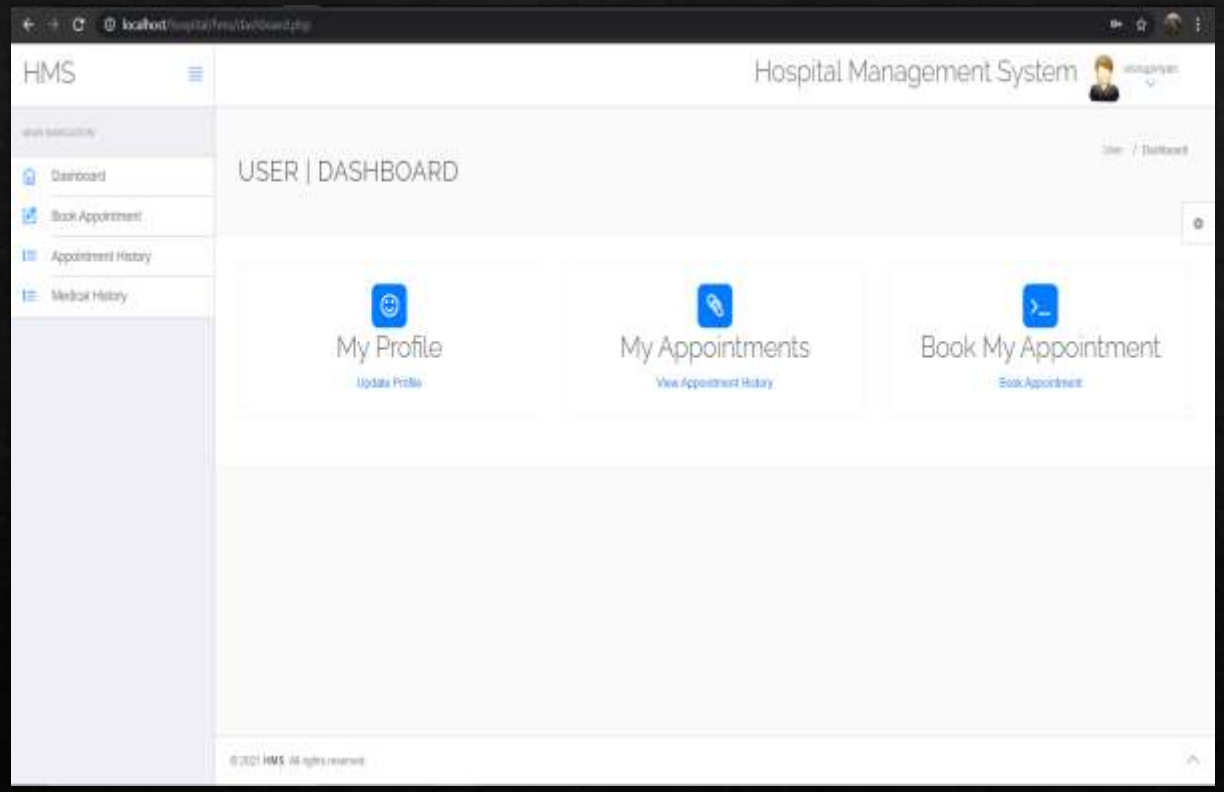
SCREENSHOTS:

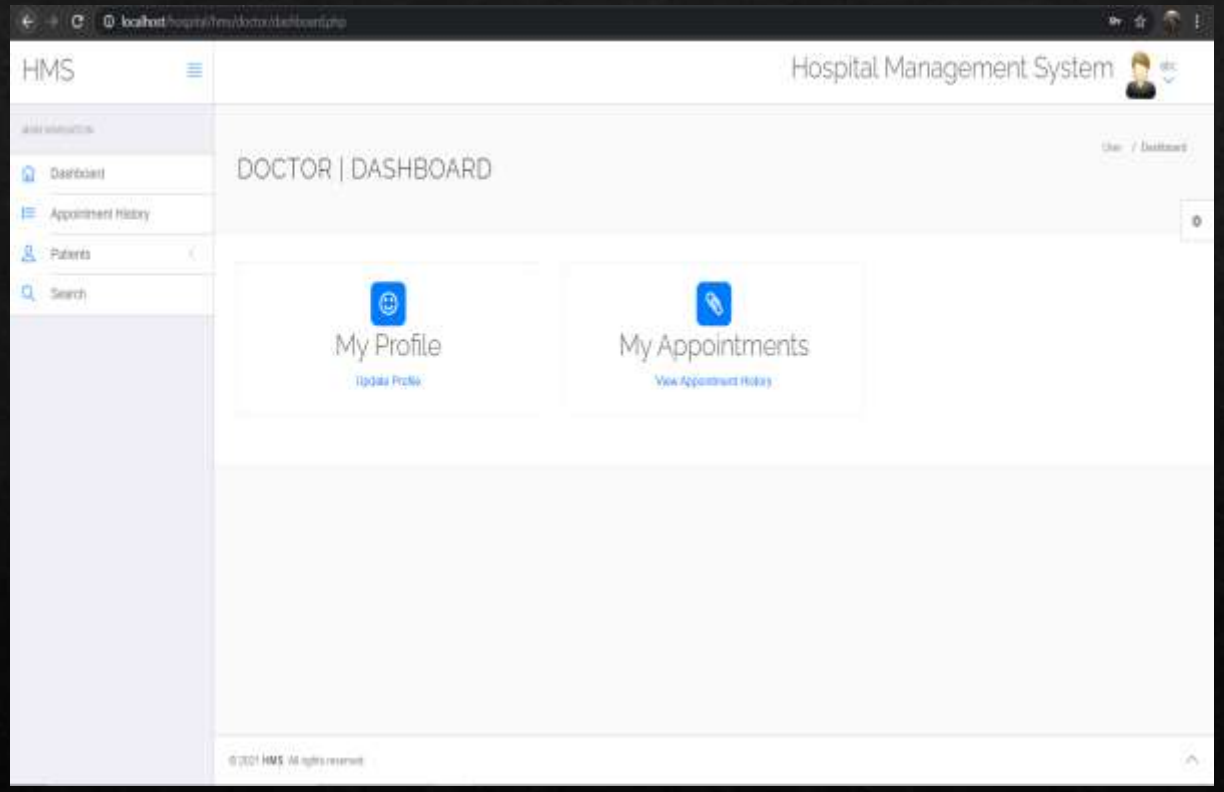




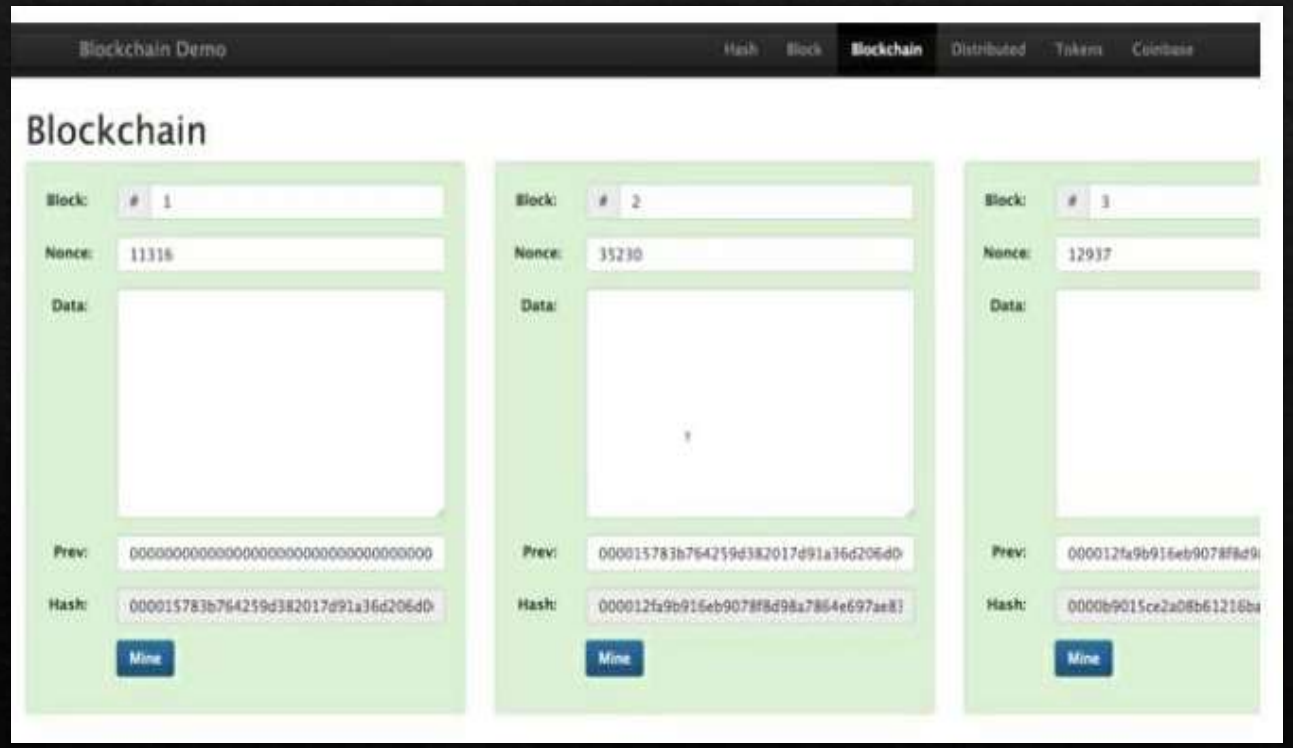
localhost/hospital/index.html
Hospital Management system
HOME
CONTACT
Patients
Register & Book Appointment
Click Here
Doctors Login
Click Here
Admin Login
Click Here

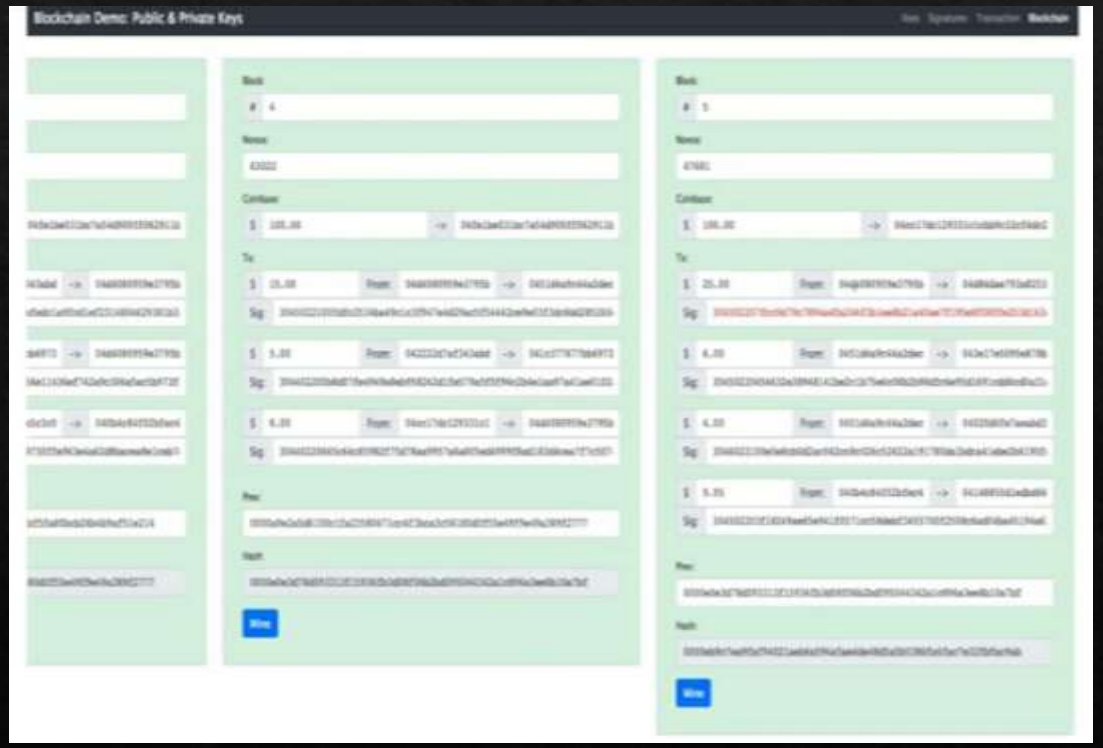

HMS | Patient Login
Sign in to your account
Forgot Password ?
Login
Don't have an account yet? Create an account


HMS
Hospital Management System
Dashboard
Book Appointment
Appointment History
Medical History
USER | DASHBOARD
My Profile
Update Profile
My Appointments
View Appointment History
Book My Appointment
Book Appointment


HMS
Hospital Management System
Dashboard
Appointment History
Patients
Search
DOCTOR | DASHBOARD
My Profile
Update Profile
My Appointments
View Appointment History

BLOCKCHAIN PROTOTYPE:





THANK YOU