Revolutionizing

Healthcare Data Management

with

Blockchain

Problem Definition

Data Security

Current practices of data storage is prone to data loss and leaks.

Untutored System

Docters and Medical partitionists are not updated of the latest advancements in the industry

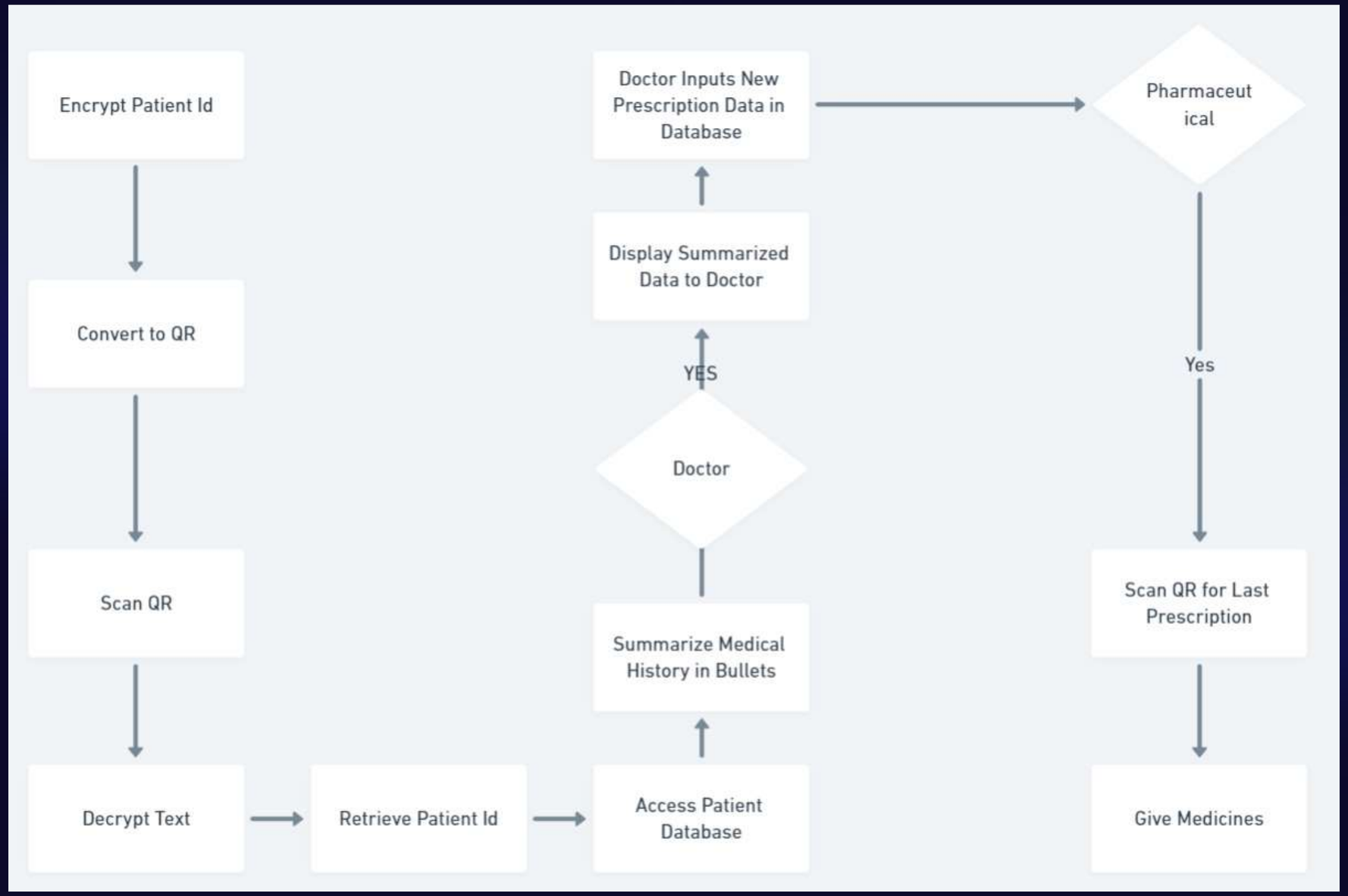
Administrative Costs

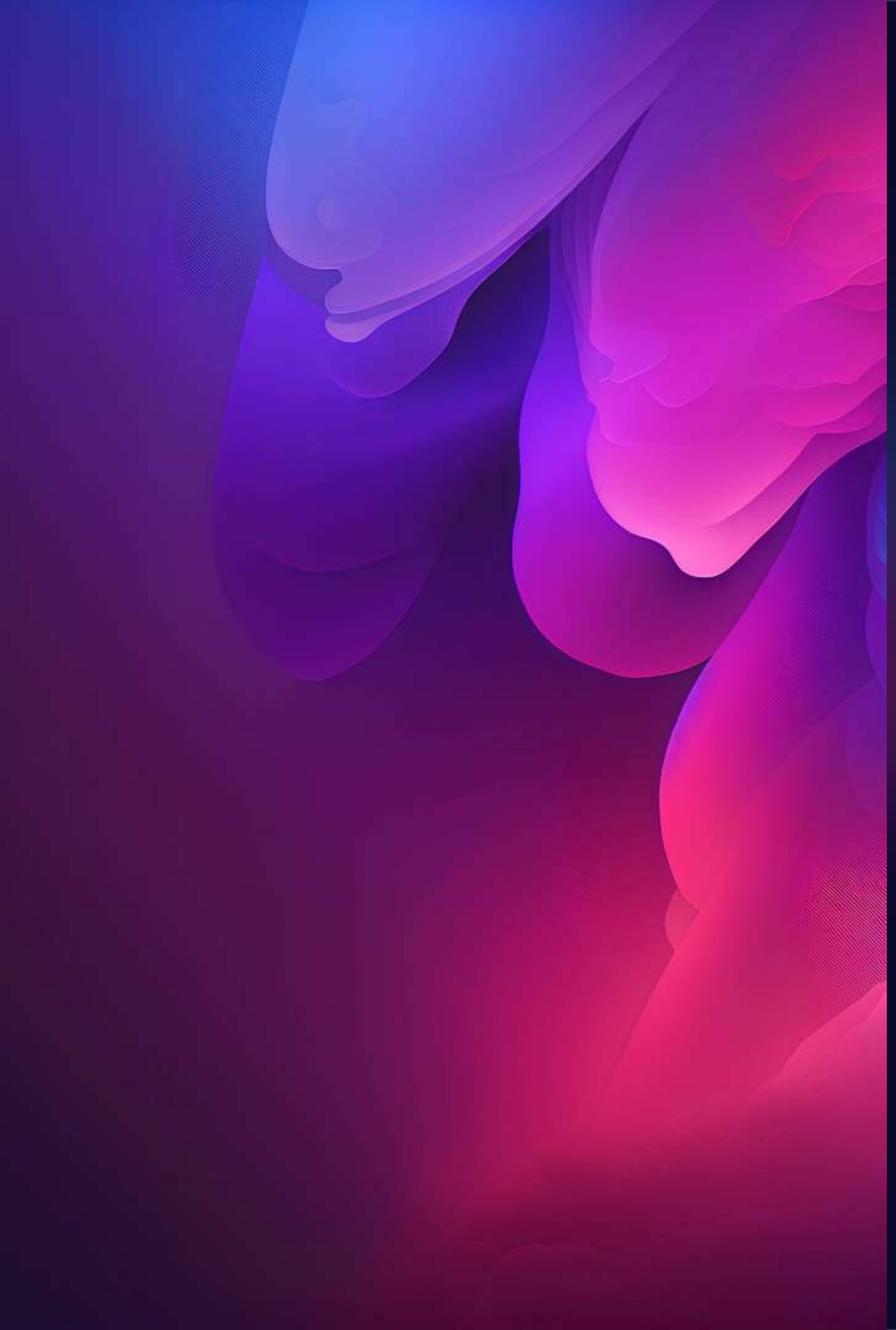
Current system involves huge monetary requirements for individual hospitals hence cost can be distributed evenly to manage database

Redundancy

The redundant data of several patients from the entire health care system.

Architecture





Technologies Used

1 **HTML and CSS**

For creating and styling user interfaces that are accessible and responsive.

2 **Ganache / Truffle**

This is for demonstration of blockchain so no actual gas fees hence for testing environment

3 **Node.js**

Enabling server-side functionality and seamless data integration.

4 **Sanity**

Providing a structured and scalable content management system.

5 **Python and Solidity**

For building smart contracts and executing blockchain transactions.

Unique Aspects of Idea:

Security and Disaster Recovery

The use of blockchain technology ensures the protection and privacy of patient data. Blockchain will help in data recovery since data isn’t available at a single database.

Reduced Administrative Costs

The use of smart contracts and automation significantly reduces administrative overhead by dividing it between multiple hospitals and medications.

Immutable Audit Trails

The blockchain's immutable audit trails provide unprecedented transparency and accountability, a key differentiator from traditional databases.

Improved Data Integrity

Blockchain-based data management minimizes the risk of tampering or fraud.

Solution

Safe and Reliable non Redundant

Protecting patient information from unauthorized access and data breaches.

Generative AI Suggestions

Docters and Medical partitionists are suggested latest and most accurate medicines acc. To patients' history.

Administrative Costs

Reducing and distributing the financial burden of maintaining and transferring medical records among hospitals.

Scalability

Data of patient of one country can be accessed by hospital of any country of the world.