VETRI VINAYAHA COLLEGE OF ENGINEERING AND TECHNOLOGY

VETRI VINAYAHA

VICTORY

THROUGH

**VIRTUE**

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OCT-2023

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**PROJECT TITLE**

ELECTRONIC HEALTH

RECORD

DOMAIN: BLOCK CHAIN TECHNOLOGY

ABSTRACT

• An Electronic Health Record (EHR) abstract is a concise summary or snapshot of a patient's medical information stored within an

electronic health records system. It serves as a quick reference for healthcare providers and medical professionals, offering a streamlined overview of the patient's health history, treatment plans, and relevant clinical data

EXISTING SYSTEM

• In the context of healthcare, the term "existing system" for Electronic Health Records (EHR) typically refers to the current EHR system or methods that a healthcare provider or institution is using to manage and store patient health records and related information.

EXISTING SYSTEM DISADVANTAGES

• **Learning Curve**

**Cost of Implementation and Maintenance**

• **Data Security and Privacy Concerns**

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**Template-Driven Documentation**

PROPOSED SYSTEM

• A proposed Electronic Health Record (EHR) system aims to address the disadvantages of existing systems and enhance the overall healthcare record management process. The design and features of a proposed EHR system may vary, but here are some key elements

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PROPOSED SYSTEM ADVANTAGES

**Improved Data Access and Sharing**

• **Enhanced Patient Care**

**• Reduced Errors and Duplications**

• **Cost Savings**

**• Data Security and Privacy**

SOLUTION ARCHITECTURE

User/ Actor

Client Interface

Private Key

Transaction

Web3

Public Key

Front end

Web3 Init

Metamask

- Wallet

Back end

Blockchain

backend

FLOW DIAGRAM

Client Application

Blockchain Network

**Req**

Req

Metamask

Smart Contract

Html

Web3Js

Res

CSS

Res

Solidity

React Js

Ecryption

Ganache

Node Server

Truffle

Decryption

SOFTWARE REQUIREMENTS

Metamask

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Node.js

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Visual studio code

Remix IDE

Blockchain technology

CONCLUSION

Electronic Health Records (EHRs) have revolutionized the way healthcare providers manage patient information, deliver care, and ensure the overall efficiency of healthcare operations. In conclusion, EHRS offer a multitude of benefits and advantages to both healthcare professionals and patients. However, the successful implementation and use of EHR systems also come with specific challenges and considerations.

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FUTURE SCOPE

The future scope of Electronic Health Records (EHRS) is promising and continues to evolve as technology advances and healthcare needs change. Here are some key areas of future development and expansion for EHR systems:

**Interoperability and Data Exchange**:

- Enhanced interoperability standards and technologies will allow different EHR systems to seamlessly share patient data, improving care coordination across healthcare providers and facilities.

Download | Node.js

← C

localhost:3000

**OUTPUT**

React App

React App

Health **Records Using** Blockchain

出口

X

Connect Wallet

Enter Record Id

Enter new record Id

Enter name

Enter new owner metamas

Enter patient Address

Transfer Record

Enter disease

Enter contact Info

Create Record

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React App

React App

MetaMark

Remix - Ethereum IDE

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14

Create Record

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Transfer Record

Get Record Data

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**THANK YOU**