**1. INTRODUCTION**

Blockchain is an emerging technology that can radically improve banking, supply chain, other transaction network and can create new opportunities for innovation. Business contains many examples of networks of individuals and organizations that collaborate to create value and wealth. These networks work together in markets that exchange assets in the form of goods and services between the participants.

Blockchain technology provides the basis for dynamic shared ledgers that can be applied to save time when recording transaction between parties, remove costs associated with intermediaries, reduce risk of fraud and tampering.

The current view of patient centricity is a scenario where patient personal record is shared to everyone, the record can be manipulated by unauthorized user. The prescription given by the physician must only be accessible to the pharmacists and not the record.

Immutable Personal Healthcare Information is the evolution of blockchain technology and how its application can produce breakthrough in healthcare industry.

The basic idea behind this is to develop one system which transmit patient’s data across geographies without compromising its privacy and security. A system built on distributed architecture, blockchain doesn’t require multiple level of authentication and at the same time gives complete, on demand access to chronologically arranged data.

One of the most important aspects of a healthcare system is the way its data is shared cross entities in value chain. Blockchain supports seamless information sharing that can eliminate duplication, errors and inconsistencies that can arise with traditional, centralized data storage. The smart contract application eliminates the need for intermediaries to manage and execute the patient contracts.

Blockchain can help put patients in charge of their own data, and it can enable physicians at different institutions to access that data for better diagnosis and medical interventions.

**2. NEED OF THE WORK**

Growing demand for healthcare services and integrated –care delivery, coupled with increased focus on member-health management, accentuates the need for an information technology system that can remove dependency on middlemen.

A system built on distributed architecture, blockchain doesn’t require multiple levels of authentication and at the same time gives complete, on-demand access to chronologically arranged data. It is a robust technology that can drive healthcare industry performance, improve quality of care and lower the cost of delivery.

**3. OBJECTIVES**

* To provide immutable personal information of patient.
* To provide system where prescriptions can be verified in reliable way.
* To provide ease of authentication.

**4. PROPOSED WORK**

**4.1 Architecture:**

**4.2 Module**

**SYSTEM REQUIREMENTS**

**5.1 HARDWARE:**

RAM : 2 GB RAM and above

Processor : Core i3 and above

**5.2 SOFTWARE:**

Programming language: C#, Solidity.

Development Platform: Ethereum.

Technology: Blockchain

**6. PROJECT PLAN**

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| --- | --- | --- |
| **Sr. No.** | **Month** | **Activities** |
| 1. | June 2018 | Topic selection and presentation |
| 2. | July 2018 | Documentation, Requirement analysis and Synopsis Presentation |
| 3. | August 2018 | Planning and Design |
| 4. | September 2018 | 1st module implementation |
| 5. | October 2018 | 2nd module designing and coding |
| 6. | November 2018 | Testing of 1st and 2nd modules |
| 7. | December 2018 | 3rd module implementation |
| 8. | January 2019 | Testing of 3rd module |
| 9. | February 2019 | Implementation, Deployment and Testing |
| 10. | March 2019 | Submission of project. |

**7. REFERENCES**

- Decentralized Applications using Blockchain – Managing Government Corruption (IRJET Apr-2018)

- Blockchain Technology as an enabler of service (Aug 2017) – Stefen Seebacher

-Remix.Etherium.org

**Batch: B2 Group: G5**

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Date: / / 2018

Place: Kolhapur.

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