Proposed Solution

TEAM ID	NM2023TMID04391
PROJECT TITTLE	BLOCKCHAIN POWERED LIBRARY MANAGEMENT

INTRODUCTION:

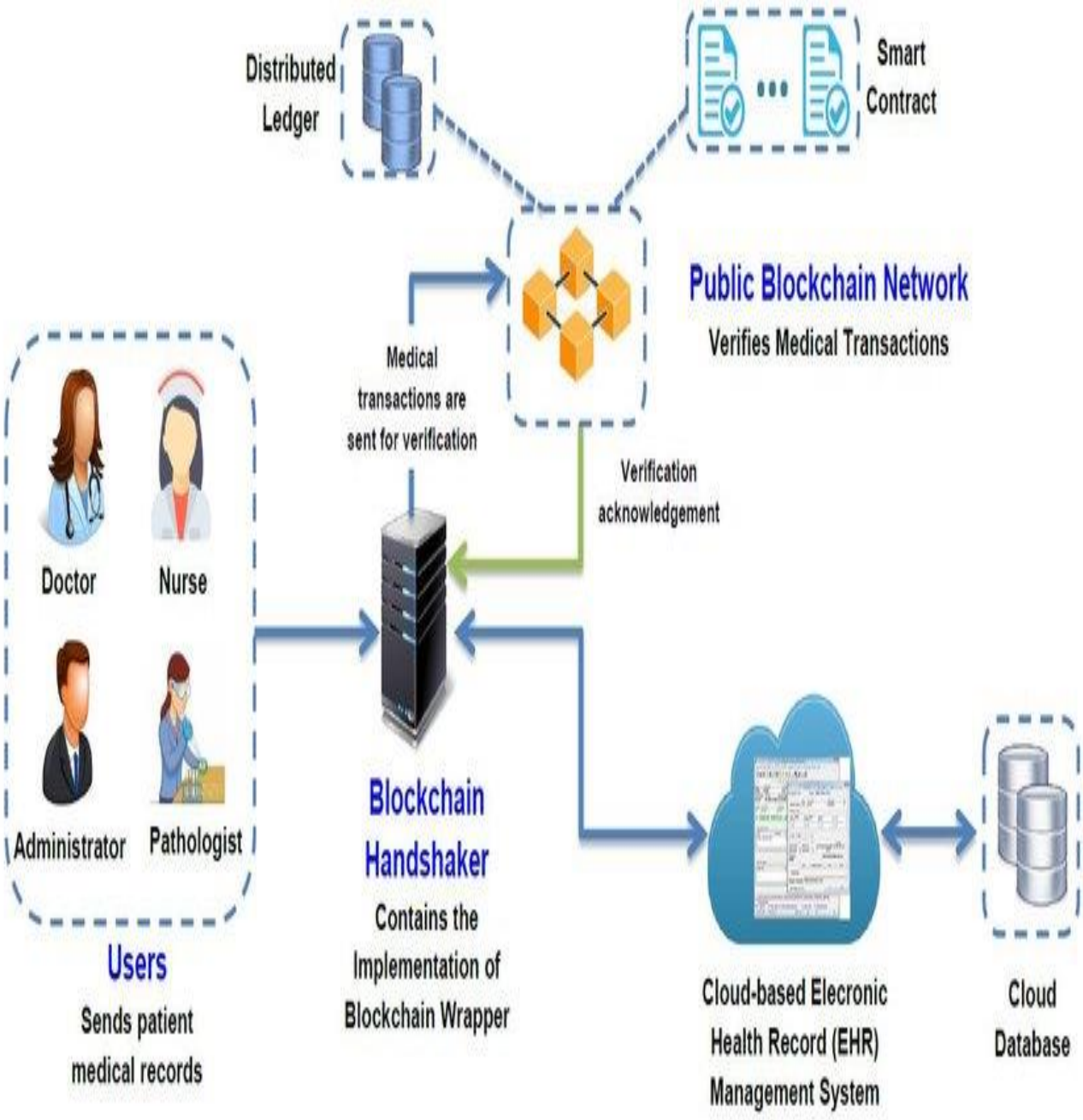
The proposed system provides several services: storage, verification, and search. The system consists of a smart contract that connects to a decentralized user application through which users can transact with the system.

BLOCKCHAIN BASED LIBRARY MANAGEMENT

❖ In the library automation based on RFID in KOHA with kiosk, the problem of auditing and stocktaking of books, papers, and periodicals persists.

❖ The solution to absolute transparency and immutability is blockchain-based library management systems. Library management can be done by the novel blockchain technology.

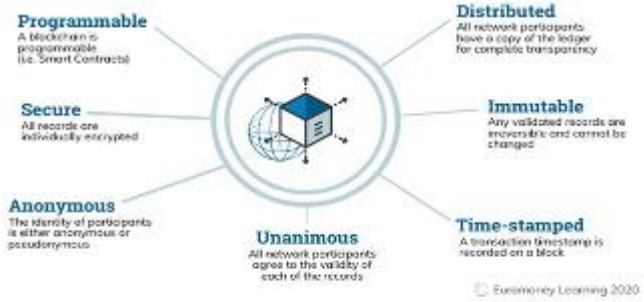
❖ To understand the purpose of the proposed proposal, consider Ram wanting to borrow books from “Library A” (LB_A), and taking notes in Library B (LB_B). LB_A and LB_B are working together through the system.



- Blockchain technology is rapidly growing and evolving. Librarians need to understand blockchain's capabilities, benefits and risks.
- Perhaps blockchain technology in libraries will be useful tools for storing, preserving and sharing information.

- ❖ This technology will also be useful for the acquisition of library material that can improve collection maintenance.
- ❖ Blockchain can secure the record of users and patrons and to advance privacy of users and research data.
- ❖ Blockchain technology also increases collaboration between users and library professionals.

Figures



Source: Available at: www.euromoney.com/learning/Blockchain-explained/what-is-Blockchain

Figure 1

Properties of distributed ledger technology (DLT)

Source: Available at: https://data-flair.training/blogs/features-of-Blockchain

Figure 2

Characteristics of blockchain technologies

Source: Available at: www.ala.org/tools/article/future-libraries/Blockchain-and-future-libraries-interview-sandra-hirsh-and-susan-ahnan