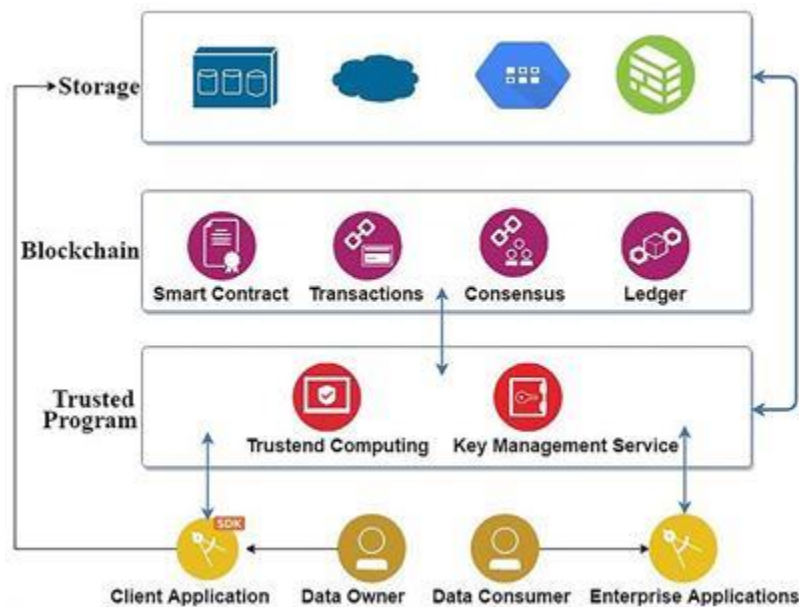


## Project Design Phase-II

### Data Flow Diagram & User Stories

Date	23 october 2023
Team ID	NM2023TMID01000
Project Name	BLOCKCHAIN POWERED LIBRARY MANAGEMENT

#### Data Flow Diagram :



Blockchain is a new and reliable technology that helps with security, preservation and reliability of data. Libraries are change agents of the 21st century and are implementing new technologies to provide maximal information in minimal time. Blockchain technology can be used to solve different problems in the library field with proper usages for storing information in a distributed tamper-resistant setting. Blockchain in library settings can be used to gather, preserve and share authoritative information devoid of many technological hurdles. Some challenges such as finance, technical and security issues are troubling factors, but proper training, support from decision makers and technical skills regarding this technology will pave the way for library practitioners.

# Characteristic of blockchain technologies

Some key characteristic of blockchain technologies are listed as follows:

- **Increased capacity:** Blockchain technology can increase the capacity of an entire network. One such example is the supercomputer created by Stanford University used for medical research.
- **Better security:** Blockchain technology offers better security as it provides for a network of numerous computer nodes that can be used for networking transactions .
- **Immutability:** Blockchain uses immutable ledgers, and all databases require trust of a third party to keep them secure from hackers. Blockchain applications, such as Bitcoin, maintain the ledger in a never-ending state of forward momentum.
- **Faster settlement:** Blockchain technology relies on faster speeds and saves time for institutions and consumers. One example from banking is that blockchain makes money transfer fast and convenient.
- **Decentralized System:** Blockchain technology offers a decentralized system that stores the assets in a network and can be accessed via the internet. The asset may be a contract or document of importance. The manager of blockchain technology has control over the accounts of individuals and can transfer anything to anyone. This technology is proving to be an effective tool for decentralizing the web.
- **Minting:** Blockchain technology involves minting a problem in several ways. Proof of work is one approach guaranteeing an individual is engaged in a significant amount of computation work.

## USER STORIES :

User Type	Functional Requirement	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Admin(who manage web server)	Overall Control	Admin	As an admin, I gave user id and password for ever workers and manage them	I can manage a web account/dash board.	High	Creator
Co Admin	Next level	Co-Admin	As a Co Admin i will manage the total entries of permission granted by the admin and follow them	I Can Manage No of Users	Medium	Checker

<b>Distributor</b>	<b>Functional</b>	<b>Dis1</b>	<b>Distribute books for the id generated by Co Admin</b>	<b>I am the responsible person to meet the user requirements</b>	<b>High</b>	<b>Provider</b>
<b>User Student</b>	<b>Request</b>	<b>User</b>	<b>Demand the required book from the library for my Usage</b>	<b>I'm the responsible person for the books i get from the library</b>	<b>Medium</b>	<b>Beneficiary</b>
<b>Accounter</b>	<b>Checker</b>	<b>Account1</b>	<b>Check periodically how many books are up in the library and how many are from the user side</b>	<b>Recollect the books from the user by checking the books no of pages etc.,</b>	<b>High</b>	<b>Checker</b>
<b>Maintainer</b>	<b>Checker</b>	<b>Maintain1</b>	<b>Overall function of the library</b>	<b>Function and monitor total no of id created and how many are in active and others ,.</b>	<b>High</b>	<b>Checker</b>