

# Ideation Phase

## Brainstorm & Idea Prioritization

### Template


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Team ID	NM2023TMID08693
Project Name	Digital Asset Management on Ethereum Block chain

### Brainstorm & Idea Prioritization Template:

Brain storming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Use this template in your own brain storming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

### Step-1: Team Gathering, Collaboration and Select the Problem Statement



## Brainstorm & idea prioritization

→ Before you collaborate

**A Team gathering**  
The team met to discuss implementing a blockchain-based library management system, focusing on security, transparency, and efficient record-keeping.

**B Set the goal**  
The goals of a blockchain-based Library Management system are to enhance transparency and security in library operations.

**C Learn how to use the facilitation tools**  
These facilitation tools enhance the user experience and streamline library operations.

1 Define your problem statement

To develop a blockchain-based library management system to address issues like inefficient record-keeping, authentication, interlibrary transactions, user privacy, transparency, and accountability, while ensuring integration with existing systems, scalability, and a user-friendly interface.

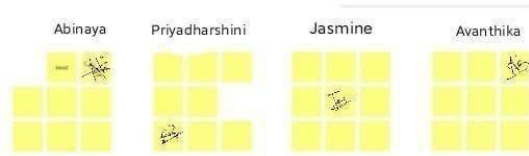
**Key rules of brainstorming**  
To run a smooth and productive session

- Stay in topic.
- Defer judgment.
- Go for volume.
- Encourage wild ideas.
- Listen to others.
- If possible, be visual.

## Step-2: Brainstorm, Idea Listing and Grouping

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Brainstorm



3

Group ideas

1. **Immutable Catalog System**: Develop a blockchain catalog for tracking library resources.
2. **Decentralized User Authentication**: Create a secure user authentication system using blockchain.
3. **Interlibrary Loan Network**: Build a blockchain network for interlibrary loans.
4. **Fine Management on Blockchain**: Manage fines and fees with blockchain automation.
5. **Transaction History Ledger**: Maintain an immutable ledger for all library transactions.
6. **Library Analytics Tool**: Develop a blockchain-based analytics tool for library data.
7. **Smart Contracts for Reservations**: Implement smart contracts for booking library resources.

## Step-3: Idea Prioritization

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Prioritize

Prioritize security, transparency, and efficient record-keeping for a blockchain-powered Library Management System.

