Ideation Phase
Brainstorm & Idea Prioritization Template

Date	7 October 2023
Team ID	NM2023TMID09523
Project Name	Blockchain-Powered Library Management
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

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

Template

Brainstorm & idea prioritization

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

- **10 minutes** to prepare
- **1 hour** to collaborate
- **2-8 people** recommended

→ **Before you collaborate**

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

🕐 **10 minutes**

A **Team gathering**
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

B **Set the goal**
Think about the problem you'll be focusing on solving in the brainstorming session.

C **Learn how to use the facilitation tools**
Use the Facilitation Superpowers to run a happy and productive session.

Open article →

1 **Define your problem statement**

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

🕐 **5 minutes**

PROBLEM

- Secure Cataloguing: Implement a blockchain-based cataloguing system to create an immutable and transparent record of library holdings, including books, journals, and multimedia resources.
- Efficient Borrowing and Returns: Streamline the borrowing and returns process through blockchain-based smart contracts, automating due dates, late fees, and ensuring real-time availability status

Key rules of brainstorming
To run a smooth and productive session

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

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕐 10 minutes

TIP

Person 1

Smart Contract Book Records:** Create a system where each book is represented by a unique Ethereum smart contract to store all its details and ownership history.

User-Friendly Interface:** Develop an intuitive and user-...

Metamask Integration:** Integrate Metamask for secure and straightforward transactions and interactions with the Ethereum blockchain.

Person 2

Book Verification:** Implement a book verification feature allowing users to confirm book authenticity by checking its blockchain record.

Person 3

Create a transparent and tamper-proof ledger of the library's budget and expenditures, allowing for greater accountability.

Person 4

Facilitate interlibrary loan transactions through blockchain, allowing for secure and transparent exchanges of materials.

Historical Records Digitization:** Explore the possibility of digitizing historical library records and integrating them into the blockchain.

Allow library users to contribute metadata and reviews to the blockchain, enriching the library's catalog with community-sourced information.

Use blockchain to record the history of library collections and digital archives to ensure the authenticity and integrity of historical records.

Permissioned Access:** Create different levels of access permissions for librarians, administrators, and patrons to ensure data security.

Enhance user authentication and identity verification through blockchain, improving library account security.

Decentralized Library Network:** Investigate the potential of expanding the system to a decentralized network of libraries, sharing book data across institutions.

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you break it up into smaller sub-groups.

🕐 20 minutes

TIP

1. Data Management and Integrity: a. Utilizing blockchain to maintain a secure and unchangeable catalog of library resources. b. Implementing smart contracts for transparent and automated record-keeping, including borrowings and returns. c. Managing digital rights and permissions for e-books and other digital resources.

4. Financial Transparency: a. Maintaining a transparent and tamper-proof ledger of the library's budget, expenses, and allocations. b. Automating financial transactions, such as fines and fees, through smart contracts. c. Improving accountability and reducing the risk of financial irregularities.

3. Interlibrary Cooperation: a. Facilitating interlibrary loans and resource sharing with other institutions through blockchain. b. Transparently tracking and managing the exchange of materials between libraries. c. Creating a shared, tamper-proof ledger of borrowed materials across libraries.

2. User Access and Security: a. Enhancing user authentication and identity verification for library accounts. b. Managing access control to ensure only authorized users can access specific resources. c. Ensuring data security and privacy in library transactions through blockchain encryption.

6. Analytics and Decision-Making: a. Utilizing blockchain data to gain insights into library usage and trends. b. Supporting data-driven collection development, resource allocation, and decision-making. c. Making informed choices based on user behavior and preferences.

5. User Engagement and Crowdsourcing: a. Allowing library users to contribute metadata, reviews, and ratings to the blockchain catalog. b. Promoting community engagement and improving the quality of library records. c. Encouraging collaboration and knowledge sharing among library patrons.

Step-3: Idea Prioritization

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

🕐 20 minutes

TIP

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

Data Security and Integrity: Blockchain can significantly enhance data security and integrity. It ensures that library records are tamper-proof and transparent, which is crucial for maintaining the trust of library users and the accuracy of the catalog.

Efficiency and Automation: Smart contracts can automate various library processes, such as borrowing and returning items, which can save time and resources for library staff.

Interoperability: Ensuring that the blockchain system can integrate with existing library management software and databases can be challenging.

User Privacy: Blockchain can help protect user privacy by implementing secure authentication and access controls, preventing unauthorized access to personal information.

Regulatory Considerations: Libraries may need to consider how blockchain technology aligns with privacy and data protection regulations.

Cost: Implementing blockchain technology can be expensive, including the initial setup and ongoing maintenance costs. Libraries, especially smaller ones, may need to carefully consider their budget.

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)

→

After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

Share the mural
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.

Export the mural
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward

Strategy blueprint
Define the components of a new idea or strategy.
Open the template →

Customer experience journey map
Understand customer needs, motivations, and obstacles for an experience.
Open the template →

Strengths, weaknesses, opportunities & threats
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
Open the template →

Share template feedback