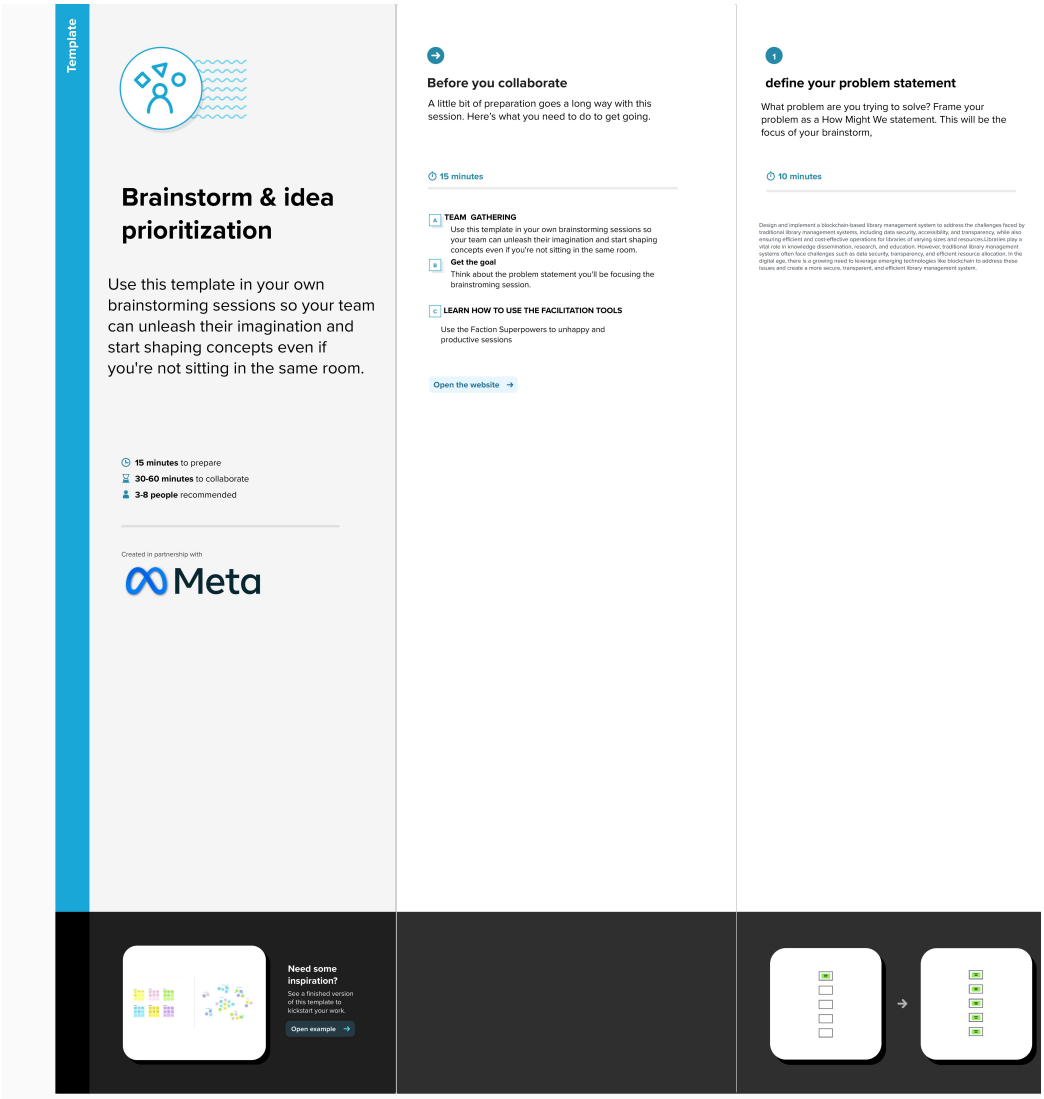
Ideation Phase
Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	NM2023TMID03964
Project Name	Blockchain - Powered Library Management
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization :

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



Step-2: Brainstorm, Idea Listing and Grouping

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Brainstorm

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

TIPS

You call select a sticky note and hit the pendi wech to skitch icon to start drawing

10 minutes

SENTHAN

Create a blockchain-based catalog system to track and manage library resources, making it more efficient and transparent. Each book, e-book, or other resources can be given a unique digital identifier on the blockchain

Implement blockchain to securely record ownership and lending history of books. This would simplify the process of tracking due dates and fines.

Utilize smart contracts to automate the lending process. Readers can check out books for a specific period, and smart contracts can enforce due dates and automatically charge late fees.

KEERTHIVASAN

Allow library users to leave reviews and ratings for books and other resources, stored on the blockchain. This ensures transparency and helps others make informed decisions.

For e-books and digital resources, blockchain can be used to manage digital rights. This ensures that only authorized users can access the content and helps protect authors' intellectual property.

Streamline the process of interlibrary loans by creating a blockchain network that connects different libraries. Patrons can request resources from other libraries securely and efficiently

KABILESH KUMAR

Maintain an accurate and real-time inventory using IoT devices that feed data to the blockchain. This helps in preventing loss and simplifying restocking.

Implement a blockchain-based reward system for frequent library users, encouraging more people to visit the library and engage with its resources.

Maintain an accurate and real-time inventory using IoT devices that feed data to the blockchain. This helps in preventing loss and simplifying restocking.

ROKESH KANNA

Leverage blockchain's security features to protect sensitive patron information, ensuring their data is kept safe and private.

n: Archive historical records and documents related to the library's history on the blockchain to ensure their preservation and accessibility.

Create a community blockchain where library users can contribute to decision-making, suggest acquisitions, or propose events, fostering a sense of ownership and engagement.

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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 and break it up into smaller sub-groups.

TIPS

You call select a sticky note and hit the pendi wech to skitch icon to start drawing

15 minutes

SECURITY

ensures that resources are easily traceable, reducing the chances of loss and enabling quick inventory updates.

Blockchain can be configured to maintain the privacy of library patrons. Personal data can be anonymized or encrypted, ensuring that only authorized personnel have access to specific information.

Blockchain allows for fine-grained access control. Libraries can manage who can view, modify, or add data to the blockchain, enhancing security and privacy.

FEATURES

Enhanced library efficiency and transparency.

Improved patron experience and resource access.

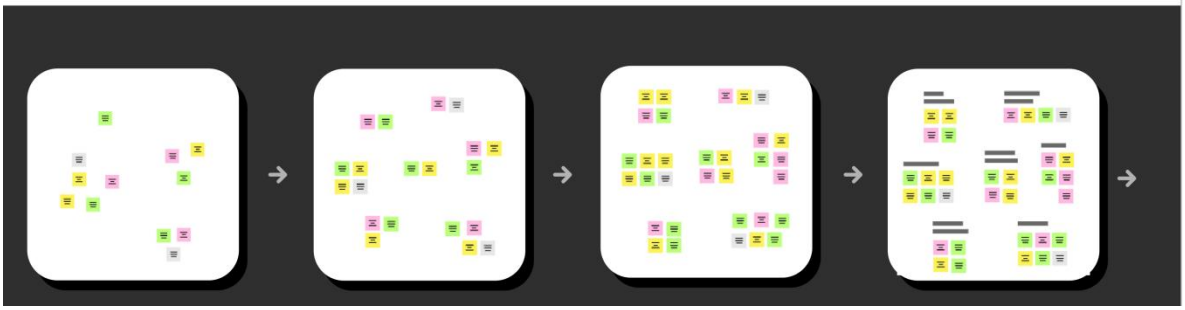
Minimized resource loss and overdue fines

CHALLENGES

Integrating blockchain into existing library systems can be complex and costly. Libraries may need to invest in new technology infrastructure and staff training.

Developing and maintaining a blockchain-based system can be expensive. This includes the cost of blockchain technology, smart contract development, and ongoing maintenance.

Developing a user-friendly interface for the platform



Step-3: Idea Prioritization

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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

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H key** on the keyboard.