Ideation Phase
Brainstorm & Idea Prioritization Template

Date	20/10/2023
Team ID	NM2023TMID03106
Project Name	Agricultural Docs Chain

BRAINSTORMING:

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

Share template feedback

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.

Type your paragraph...

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 →

Need some inspiration?
See a finished version of this template to kickstart your work.

Open example →

Define your problem statement:

In the agriculture industry, there is a critical need for a secure and efficient system to manage, verify, and share various documents and records such as land ownership titles, crop certifications, supply chain information, and contracts. Current paper-based and manual processes are prone to errors, fraud, and delays, leading to inefficiencies in the agricultural ecosystem. Additionally, these documents are often dispersed across multiple stakeholders, making collaboration and transparency challenging. The 'Agriculture Docs Chain' project aims to address these challenges by leveraging blockchain technology to establish a decentralized and immutable system for document management and verification.

This will improve the integrity, accessibility, and traceability of crucial agricultural documents, ultimately enhancing trust and efficiency within the industry.
Designing a smart contract on the ethereum block chain to store and manage agriclture data, including the ability to add, query, and update details, requires careful planning.
Below is a conceptual outline of how this can be done along with the simplified smart contract. This simplified smart contract allows for adding and updating agriculture data. In practice, additional features, security measures, and access control mechanisms would be needed for a fully functional and secure agriculture data management system on the block chain.

2

Brainstorm

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

⏱ 10 minutes

Team leader

increase trust among stakeholders	improve traceability and food safety
encryption RAFT consesnus algorithm	errors in smart contracts leads to financial losses

Team member 1

ensure the integrity of data	smart contracts
it is resistive to adapt new technology	the system relies on technology

Team member 2

machine learning algorithm	facilitate contact tracing
farmers need education and training to effectvely use blockchain	ability to track agricultural product from source to market

Team member 3

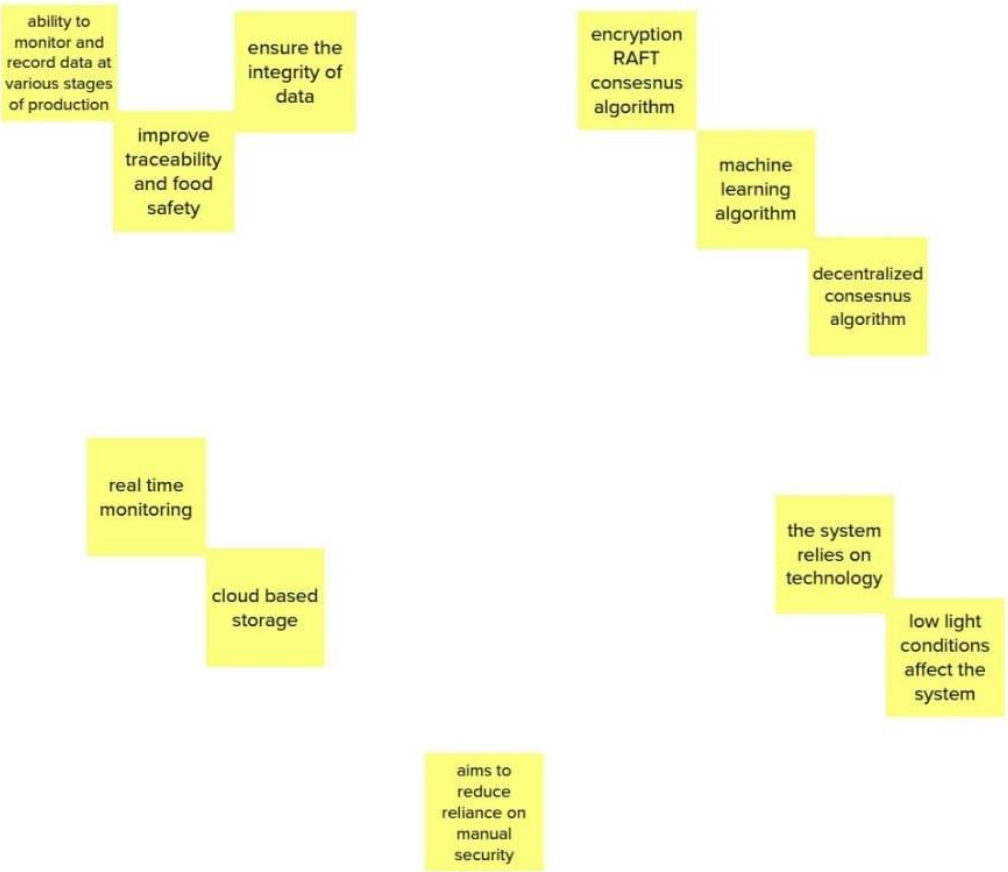|	
decentralized consesnus algorithm	ability to monitor and record data at various stages of production
integrating with existing system can be complex	reduce reliance on manual security check

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 and break it up into smaller sub-groups.

⏲ **20 minutes**

ability to monitor and record data at various stages of production

ensure the integrity of data

improve traceability and food safety

encryption RAFT consesnus algorithm

machine learning algorithm

decentralized consesnus algorithm

real time monitoring

cloud based storage

the system relies on technology

low light conditions affect the system

aims to reduce reliance on manual security

(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

♡

Importance

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

improve overall efficiency inthe agricuture supply chain

Algorithm

Disadvantage

Techniques

Content

⚑

Feasibility

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