

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID32919
Project Name	Project - Smart Farmer - IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

Brainstorming 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 brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you are not sitting in the same room.

Reference:

<https://app.mural.co/invitation/mural/muthu07602gmailcom9532/1663426434284?sender=u612bee574226f120d7bc3235&key=57d919d8-2f1a-4efc-b15b-b9ddac5dc506>

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

Digital and Smart farming because need to yield more crops than traditional methods.

2

Key rules of brainstorming

To run a smooth and productive session

➕ Stay in topic. ⚡ Encourage wild ideas.

Step-3: Idea Prioritization

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graph TD
    A[Reduce the time that spent to measure the moisture of the farm field.] --- B[Automate the collection of environmental fertilization and irrigation data.]
    B --- C[Monitor humidity and Ph value.]
    C --- D[Reduce The network Latency.]
    E[control farming equipment without human interaction.] --- F[control farming equipment without human interaction.]
    F --- G[Real Time data monitoring, controlling and managing the water level.]
    G --- H[With a wireless sensor network, it is easy to connect with many sensor nodes placed in the farming environment.]
  
```

The diagram illustrates five clusters of ideas generated by students. Each cluster is represented by a yellow box containing a specific idea, connected by lines to show the flow of thought. The clusters are:

- Reduce the time that spent to measure the moisture of the farm field.
- Automate the collection of environmental fertilization and irrigation data.
- Monitor humidity and Ph value.
- Reduce The network Latency.
- control farming equipment without human interaction.
- Real Time data monitoring, controlling and managing the water level.
- With a wireless sensor network, it is easy to connect with many sensor nodes placed in the farming environment.

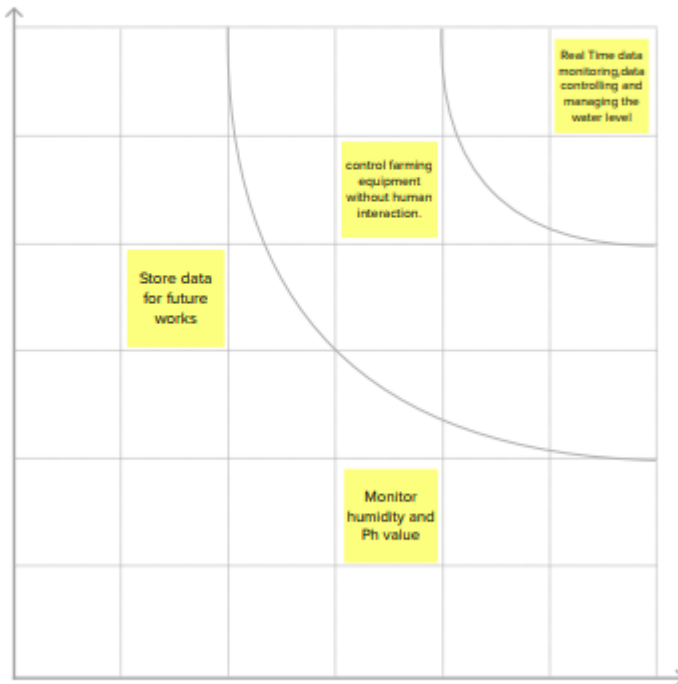
4

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?



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