

Ideation Phase
Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID17561
Project Name	IoT-Based Smart Crop Protection System for Agriculture
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.

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

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.

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

An intelligent crop protection system helps the farmers in protecting the crop from the animals and birds which destroy the crop. This system also helps farmers to monitor the soil moisture levels in the field and also the temperature and humidity values near the field.



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.

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Need some inspiration?

See a filtered version of this template to help you work.

Open example ➔

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
You can select a sticky note and in the panel (below to sticky) can't start drawing!

Arshad Parvez G

Farmers should be provided with the user friendly interface

Cost must affordable

The complete informations should be stored in the cloud for future access

Solar panels can be used for back up power

Kishore Kumar K

The waste can be stored and reused as bio wastes

Eco-Friendly

Battery must be used to sustain in the power cut situation.

Incase of emergency, the system should be play an effective role.

Lavanya M

Pictorial representation is the best than the fonts

The intruders like birds and rats should be drive away

As majority of farmers are illiterates, icon representation is the best way

Battery back up is must

Mathuprakas R

Interface should be easy to understand

arduino device can be used

Solar panels can be used for back up power

motors can be connected with this device which can be controlled from anywhere

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 can break it up into smaller sub-groups.

20 minutes

TIP
Add cluster labels tags to sticky notes to make it easier to find, remove, organize, and collaborate important ideas as happens in your journey.

Hardware device

Arduino

Raspberry

Ui interface

User friendly

Pictorial representation

Cost

It should be affordable

Emergency alert

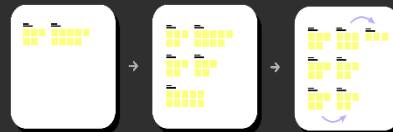
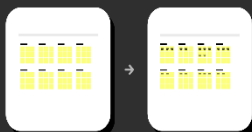
If there is any malfunction full system should be shut down

Incase of high value of humidity and temperature farmers will receive alert messages

Accessibility

It should be only accessed by the owner of the farm

Unknown users shouldn't be allowed to access the informations



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

