


## Ideation Phase

### Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID30928
Project Name	IoT Based Smart Crop Protection System for Agriculture
Maximum Marks	4 Marks




# Brainstorm & Idea Prioritization Template:


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



### 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


Farmers face many problems due to attack of birds and animals in the farms. It is not possible to guard the farms from the animals 24/7. So we need to find a solution to prevent animals from entering the field.





#### Key rules of brainstorming


To run an 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

#### D. Nandhini

Sensors used by farmers, it should be convenient to understand	Low power consumption	Waste should be discarded perfectly
Less harm to humans & animals	When to discontinue the disturbance must be shown	Farmers must be provided with user friendly interface
Personal representation of the disturbance should be shown		

#### H. Sneha

Use of solar panels	Easy-to-use	Battery must hold more power
Issues of self-learning to detect intruders	Sensors plays a major role	Information should be sent through internet
Image processing should be done		

#### A. Sowmya

Sensors should be placed on proper locations	Improved productivity	The whole system should be farmer resistant
Easy to operate	Battery must maintain at power even situations	Issues of integrating the system should they are effective rate
High yield		

#### S. Sowndarya

Must be affordable	How about sharing the device to have reference	Operations must not be complex
Cloud storage should be implemented effectively	Software must be used properly	Location of sensors must be monitored frequently
Disturbance of disturbance must be implemented correctly		

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

1. Our goal is to protect the crops from the animals and birds.
2. So we are going to develop the IOT smart crop protection .
3. This system helps the farmer in monitoring animals and birds when they reach the system.
4. It also alerts the farmer when animal reach the farm.
5. Farmer can know the alerts by the system that were connected

## 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

