

## Ideation Phase

### Brainstorm&Idea Prioritization Template

Date	03 september 2022
Team ID	PNT2022TMID38557
Project Name	IOT based smart crop protection for agriculture
Maximum Marks	4 Marks

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

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**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

**How might we protect crop from being destroyed ?**

Our problem is to provide protection for crop when the farmer has unable to reach his field.

#### Step-2: Brainstorm, Idea Listing and Grouping

Vinothini	Jayasri
<div style="background-color: #ffff00; padding: 5px; margin-bottom: 5px;">The smart protection system defines that this project help to Farmer for the protection of a farm.</div> <div style="background-color: #ffff00; padding: 5px; margin-bottom: 5px;">The IOT device is used to indicate the farmer by a message while someone enter into the farm and we are used SD card module that helps to store a specified sound to fear the animals.</div> <div style="background-color: #ffff00; padding: 5px; margin-bottom: 5px;">)This whole project is work on 12V dc supply from battery. We used solar panel to charge the battery</div> <div style="background-color: #ffff00; padding: 5px;">This project contents Arduino UNO,node mcu,LCD display,Flame sensor,PIR sensor,SD card module,solar panel,solar charge converter(Boost converter).</div>	<div style="background-color: #ffff00; padding: 5px; margin-bottom: 5px;">Sensors to detect if there is any disease</div> <div style="background-color: #ffff00; padding: 5px; margin-bottom: 5px;">Realtime crop monitoring</div> <div style="background-color: #ffff00; padding: 5px; margin-bottom: 5px;">Effective accuration and adaptive</div> <div style="background-color: #ffff00; padding: 5px;">Imroved livestock farming</div>

### Step-3: Idea Prioritization

#### Tamilarasan

Ultrasonic sensors are used to detect the animal movement

Alarm to scare the small predator like birds so on ....

Send intimation message to user where there is any movement of animals activities

Reduce the environmental footprints

#### Santhosh

Necessary communication interface

Highly flexible and more accuracy

Sensors to detect the any movement of the animals

Local data acquisition

### GROUP IDEAS:

