# Ideation Phase Brainstorm & Idea Prioritization Template

Date	30 September 2022
Team ID	PNT2022TMID33661
Project Name	Project -IOT Based Smart Crop Protection
	System for Agriculture
Maximum Marks	4 Marks

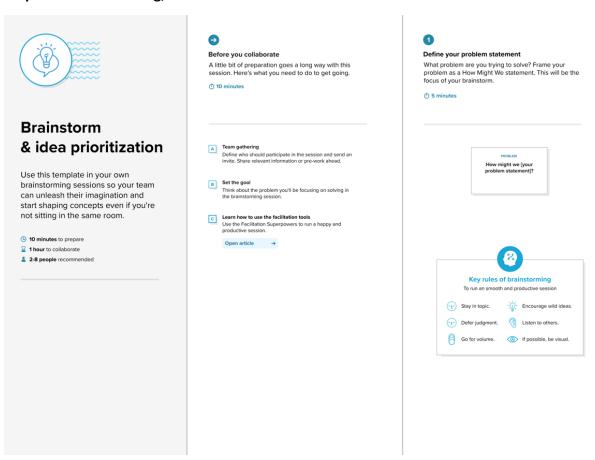
## **Brainstorm & Idea Prioritization Template:**

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.

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.

Reference: https://www.mural.co/templates/empathy-map-canvas

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



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

#### **Step-3: Idea Prioritization**

#### **AUSTIN JEREMIA A**

- Protect crops using greenhouse technique
- Can control operations regarding to closing and opening of roof and other operations manually through IOT technology
- Make a node to transmit data from sensor nodes to a coordinator node
- The cost and energy consumption of this system is less

### **AATHISHWARAN L**

- Managing sensors networks and technologies based on web
- Use less sensors to make the system smaller
- Simplify Zigbee networls, improve area of greenhouse will increase system complexity
- Sensors configured to microcontroller to analyzes the parameters like weather ,humidity and temperature.

#### **KISHORE KUMAR S**

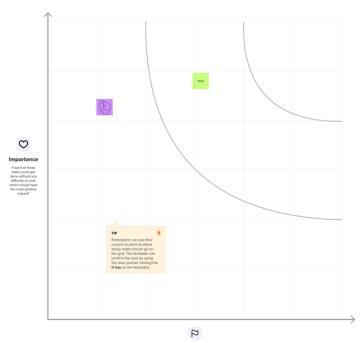
- Monitor agricultural land conditions, to control water irrigation
- WSN can be used to detect physical parameters like heat, light, pressure
- The greenhouse which can monitor real time sensors
- Control the switches and the data is analyzed dynamically and efficiently using splunk

#### **GOKUL G**

- To predict and simulate the generated energy annually at different angles
- It is done by Polyson program
- The BIPV panel is installed at a till angel of 30 degree
- Installation of semi-transparent photovoltaic on greenhouse depends on temperature parameter

Prioritize
Pour team should all be on the same page about what's important moving forward. Place you'r dress on this grid to determine which lotes are important and which are feasible.

① 20 minutes



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