

Ideation Phase
Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID25625
Project Name	SmartFarmer-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.

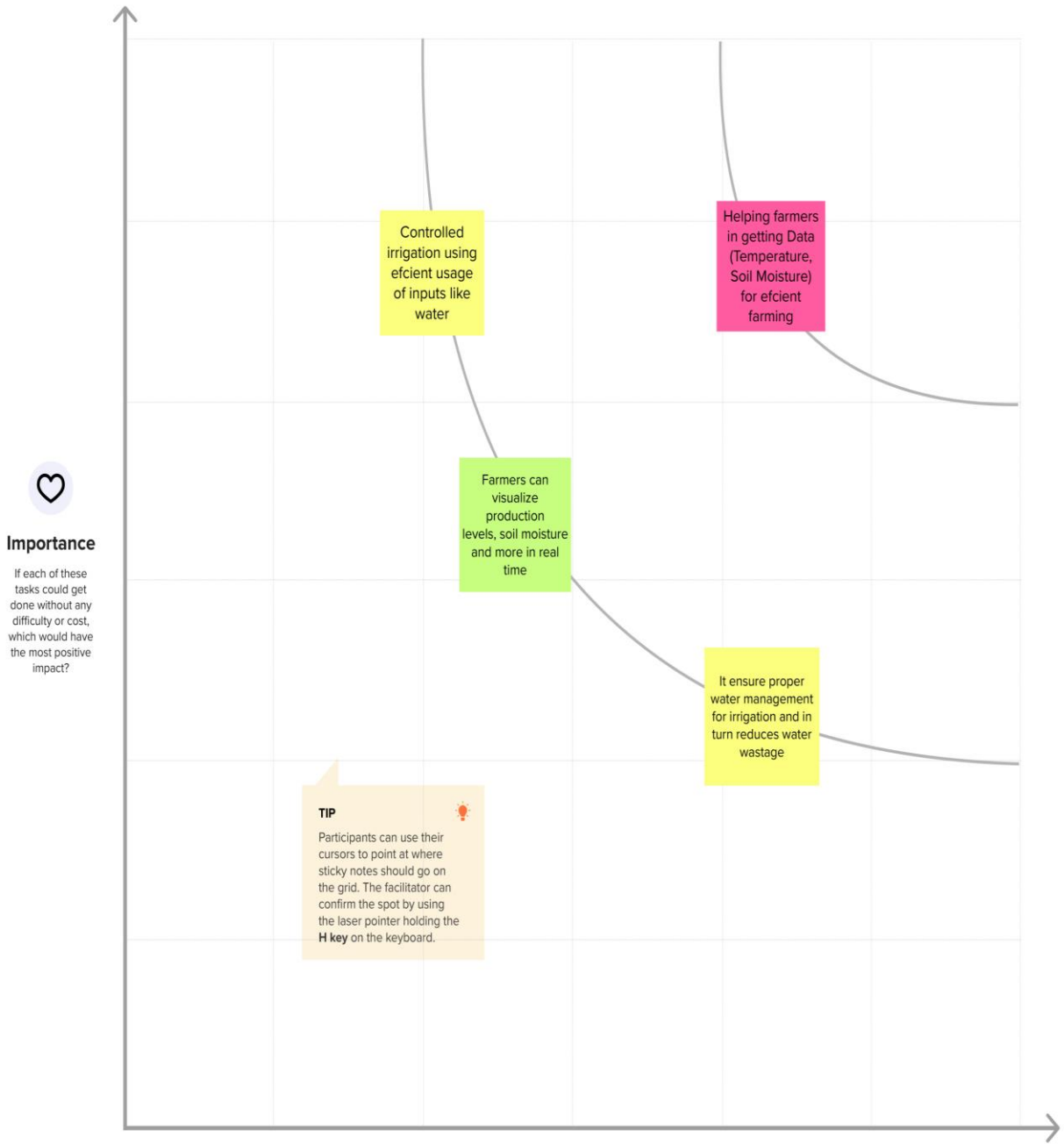
Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

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



2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

Faizul Hassan

we insert the temperature sensor for temperature analysis

Sensors for soil scanning and water, light and humidity and temperature management

According to change in temperature level the sensor does its job

It ensure proper water management for irrigation and in turn reduces water wastage

Manoj

Due to automatically handling, user requires less man power

Determining custom fertilizer profiles based on soil chemistry.

Excess water indication

Controlled irrigation using efficient usage of inputs like water.

Gurumurugan

we can use the ESP8266 IC board for Wifi connection

we also insert the Automated irrigation

Farmers can visualize production levels, soil moisture, and more in real time

There are many ways that Smart Farming can improve sustainability

Kathir

IoT in agriculture focuses on optimizing the use of land, energy, and water

Minimizes Human efforts, simplifies techniques of farming and helps to gain smart farming

There are many ways that Smart Farming can improve sustainability

Due to automatically handling, user requires less man power

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

Sensors

Sensors for soil scanning and water, light and humidity and temperature management

These sensors collect vital information like crop health, temperature, precipitation, humidity, and other parameters

Irrigation

Controlled irrigation using efficient usage of inputs like water.

The system can automatically start the irrigation, which stops after achieving the specified threshold value of soil moisture

Farmer

Due to automatic handling, user requires less man power

Farmers can monitor field conditions from anywhere