


# Ideation Phase

## Brainstorm & Idea Prioritization Template

Date	18 September 2022
Team ID	PNT2022TMID30802
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

### Brainstorm & Idea Prioritization:

#### Step-1:



## 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

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### 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

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- 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.

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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

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PROBLEM

How might we able to predict the parameters in field and let the farmers to decide to irrigate without their presence



### 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

#### Praveenkumar

- The user can monitor the conditions in mobile application with the help of WiFi module
- Notify the user by the processed from the cloud
- detection of pest, birds, and humans by their body temperature and alerts the farmers
- Sensors to monitor the status of crops and pest

#### Vinothkumar

- motor for spraying the water When the temperature exceed a limit
- use temperature sensor and also integrates cloud based recording system
- live data of sensors can be accessible from distant places using web application
- A PIR based detector is to sense movement of people and animals

#### Thinaayyanar

- Automated water pumping system.
- Live data about crops and soil.
- Wireless Sensor Network to monitor livestock.
- By cloud data, any changes in sensor data we can easily determine weather condition

#### Vijay Adhars Raj

- Adjustable applications based on crops
- Monitoring of climate conditions they collect various data from the environment and send it to the cloud
- Optical and Radiometric Sensor can be used to detect fertilizer needed to soil
- Use sensor to monitor and adjust environmental parameter like moisture

### 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

#### using Internet of things

- Automated water pumping system
- Wireless Sensor Network to monitor livestock
- Optical and Radiometric Sensor can be used to detect fertilizer needed to soil
- motor for spraying the water When the temperature exceed a limit
- Use sensor to monitor and adjust environmental parameter like moisture
- detection of pest, birds, and humans by their body temperature and alerts the farmers
- Sensors to monitor the status of crops and pest
- A PIR based detector is to sense movement of people and animals

#### Using web application

- The user can monitor the conditions in mobile application with the help of WiFi module
- use temperature sensor and also integrates cloud based recording system
- live data of sensors can be accessible from distant places using web application
- Adjustable applications based on crops
- Live data about crops and soil

#### Using Cloud Technology

- Notify the user by the processed from the cloud
- By cloud data, any changes in sensor data we can easily determine weather condition
- Monitoring of climate conditions they collect various data from the environment and send it to the cloud

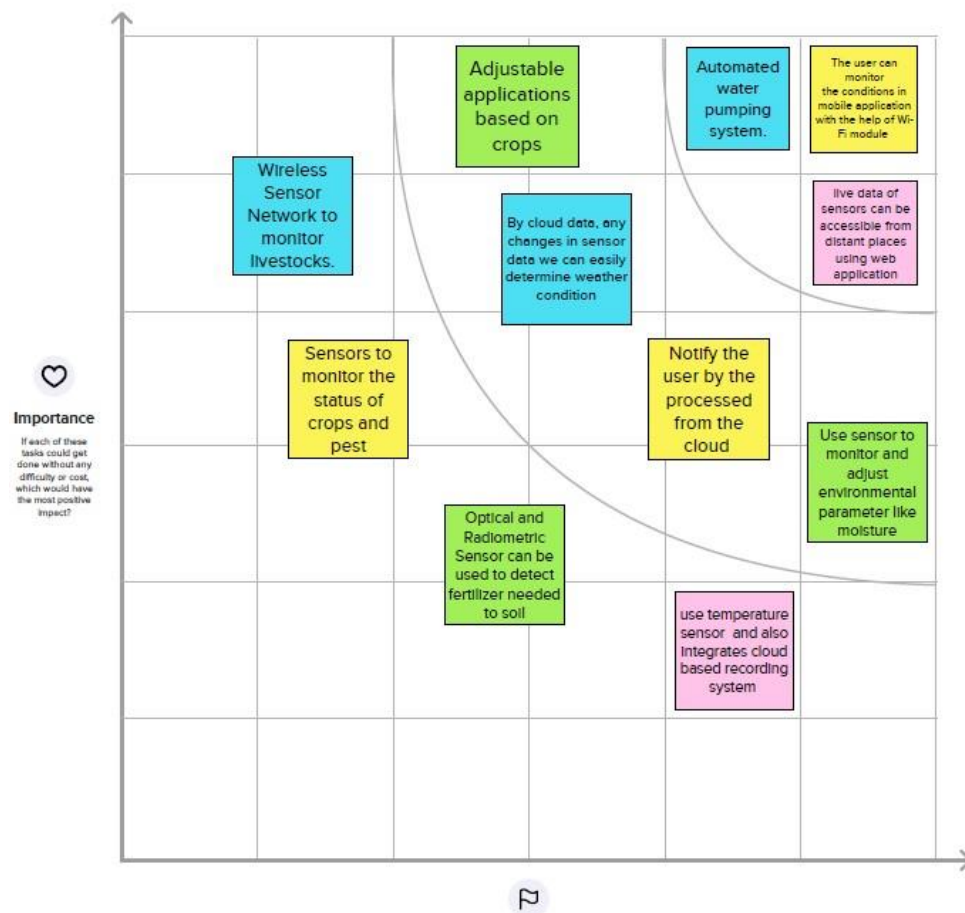
## Step-3: Idea Prioritization

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### 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



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