


Ideation Phase

Brainstorm & Idea Prioritization Template

Date	18 September 2022
Team ID	PNT2022TMID30270
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

➔

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.

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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

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



Key rules of brainstorming

To run a 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

Karthick raja S

The user can monitor the conditions in mobile application with the help of Wi-Fi 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

Gobinath G

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

Jayakumar M

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

Boobalan R

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 Wi-Fi 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

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

