


Ideation Phase

Brainstorm & Idea Prioritization Template

Date	14 OCTOBER 2022
Team ID	PNT2022TMID24432
Project Name	IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE
Maximum Marks	4 Marks

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

Template



Brainstorm & idea prioritization

For Smart Farming - IoT enabled Smart Farming Application

⌚ 10 minutes to prepare
👥 1 hour to collaborate
👤 2-8 people recommended

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Problem statement for smart farmer

⌚ 5 minutes

PROBLEM

There is a pressure on farmers to increase food production while consuming less water and energy, a remote control & surveillance. Farmers will benefit from a system that effectively handle these pressures.

To run an smooth and productive session

- 🗣️ Stay in topic.
- 🚫 Defer judgement.
- 🗣️ Go for volume.
- 💡 Encourage wild ideas.
- 👁️ If possible, be visual.
- 👂 Listen to others.

Step-2: Brainstorm, Idea Listing and Grouping

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

One of the difficult tasks in farming is watering the plants, which requires them to wait until the entire field has been rained on. He once had to spend 30 minutes checking the field.

Using a temperature sensor, moisture sensor, water level sensor, DC motor, and GPRS module made farming easier. The IOT-based farm monitoring system starts by analysing the moisture, humidity, and water levels.

Smart farming is a management idea that aims to give the agricultural sector the infrastructure to use cutting-edge technology, such as big data, the cloud, and the internet of things (IoT), for tracking, monitoring, automating, and analysing processes.

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

Importance
If each idea is important, it should have a high priority.

Feasibility
If each idea is feasible, it should have a high priority.

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