


## Ideation Phase

### Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID24443
Project Name	Smart Farmer – IOT Enabled Smart Farming Application
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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1

**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 judgment.
- 🗣️ Go for volume.
- 💡 Encourage wild ideas.
- 👁️ If possible, be visual.
- 👂 Listen to others.

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

### 2

#### Brainstorm

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

10 minutes

#### Vyshnavi

The problem of waterlogging in agricultural fields is a major challenge. It is caused by excessive rainfall and poor drainage systems. This leads to waterlogging, which affects the growth of crops and reduces the yield. The solution is to create a drainage system that can collect and remove excess water from the fields. This can be done by installing a network of drainage pipes or canals that lead to a collection point. The collection point can be a pond or a reservoir, where the water can be stored and used for irrigation. This system can be automated using sensors and a control system that monitors the water level in the fields and triggers the drainage system when it is needed.

#### Nuhiya

One of the challenges 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.

#### Charani Sri

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.

#### Nandhika

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#### Lavanya

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### 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

## 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

Feasibility

Feasibility study of the different processes to export the product, and they must wait for the entire field to be rained on. He once had to spend 30 minutes checking the field.

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.

The process of getting the product to the market, and they must wait for the entire field to be rained on. He once had to spend 30 minutes checking the field.

A machine that can be used to water 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.