

## Ideation Phase

### Brainstorm & Idea Prioritization

Date	21 October 2022
Team ID	PNT2022TMID08447
Project Name	Smart Farmer – IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

#### Defining problem statement

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

To make farming simpler by identifying a few agricultural restrictions, overcoming those limits, and increasing production quality & quantity by utilizing IOT.



#### 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.

BrainstormBrainstorm

2

Brainstorm

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

🕒 10 minutes

**TIP**  
You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

GOWSALYA L

- Intelligent accuracy in farming
- decreasing waste and boosting productivity
- analysis of the climate for improved farming
- Remote Monitoring
- By not using additional insecticides

DEEPIKA BK

- Investigating the soil
- to provide farmers with crop condition information
- Weather condition should be monitored regularly

MEGAVARSHINI G

- Farmer may access all of the data from various sensors on their mobile phones.
- study soil conditions, temperature, and humidity
- IoT-based smart farming
- Smart analysis and Planning

MONISHA N

- by determining the nutrients in the soil and selecting the most appropriate crop
- to determine the air's temperature and moisture content
- It involves an app that displays a number of iterations to assist the farmer in determining the crop conditions.
- It combines hardware and software.
- to determine the mineral composition

## Group ideas

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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

Nowadays Internet of Things (IoT) technology is one of the fastest growing fields in different domains including agriculture

IOT improves the quality of our lives by bringing and fostering changes in many fields of activities to make them become handy, smart and endowed by sufficient artificial intelligence

Smart farming systems know a cultural change towards modern agriculture which is more productive ,consuming less water and even cheaper

The main goal of my project is to use IoT in the agriculture field in order to collect data instantly soil moisture, temperature which will help one to monitor some environment conditions remotely.

The present prototype is developed using arduino technology,which comprise specific sensors and wif module that helps to collect instant data online,

Worth mentioning the testing of this prototype generated , highly accurate data because while we were collecting them remotely any environmental changes were detected instantly and taking in consideration to make decisions.

PrioritizationPrioritization

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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

