


Ideation Phase

Brainstorm & Idea Prioritization

Date	16-09-2022
Team ID	PNT2022TMID34458
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

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



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

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


To make farming easier by choosing several constraints in agriculture and to overcome those constraints , to increase production quality & quantity using IOT.





Key rules of brainstorming


To run a smooth and productive session


 Stay in topic.

 Defer judgment.

 Go for volume.

 Encourage wild ideas.

 Listen to others.

 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

G.Mugeshwaran
Smart precision in farming
Analysing the climatic conditions for better farming
Using remote monitoring
By avoiding the usage of more pesticides

Isravel Kewin Clint.P
By identifying the nutrient in the soil and to choose which crop suits the best
It involves app that shows several constraints that helps the farmer to identify the conditions of the crops
To identify the temperature and the moisture in air
To identify the mineral contents

Blesswin.K.Samuel
All data from different sensors is accessible to the agriculture on their mobile phones
Smart analysis and planning
Smart farming using IOT
Analyze soil status, temperature and humidity

Vijay.S
Helps to plant crops according to the weather conditions analysed
It involves both hardware and software
Reducing wastes and increasing productivity
To inform farmer about the condition of crop

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 and 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 wifi 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.

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

