Ideation Phase
Brainstorm and Idea Prioritization

Team ID	PNT2022TMID33417
Project Name	SmartFarmer - IoT Enabled Smart Farming Application

Team Leader:

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Team members:

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STEP1:

Smart Farmer - IoT Enabled Smart Farming Application

The agriculture industry is developed a lot with the help of technology; it became data-centered and smarter. The rapid growth of the Internet of Things based technologies reshaped many industries, including agriculture.

🕐 **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

Eco-friendly smart farming technology helps **reduce agricultural pollution**. Using less fertilizer and herbicides reduces leaching and greenhouse gas emissions.

🕐 5 minutes

> PROBLEM
>
> **Smart Farming: How does Smart farming helps farmers?**

Key rules of brainstorming
To run an smooth and productive session

😊 Stay in topic.	💡 Encourage wild ideas.
😐 Defer judgment.	👂 Listen to others.
🔋 Go for volume.	👁 If possible, be visual.

STEP 2:

SANTHIYA V

Enabling farmers to create the best stategy	Enhance productivity	Information can be used to track soil condition
An accurate forecast helping avoid crop failure	Pesticide required by each fix at clear timespans	Sensors help farmers determine the best time to sow crops

SOWMIYA A

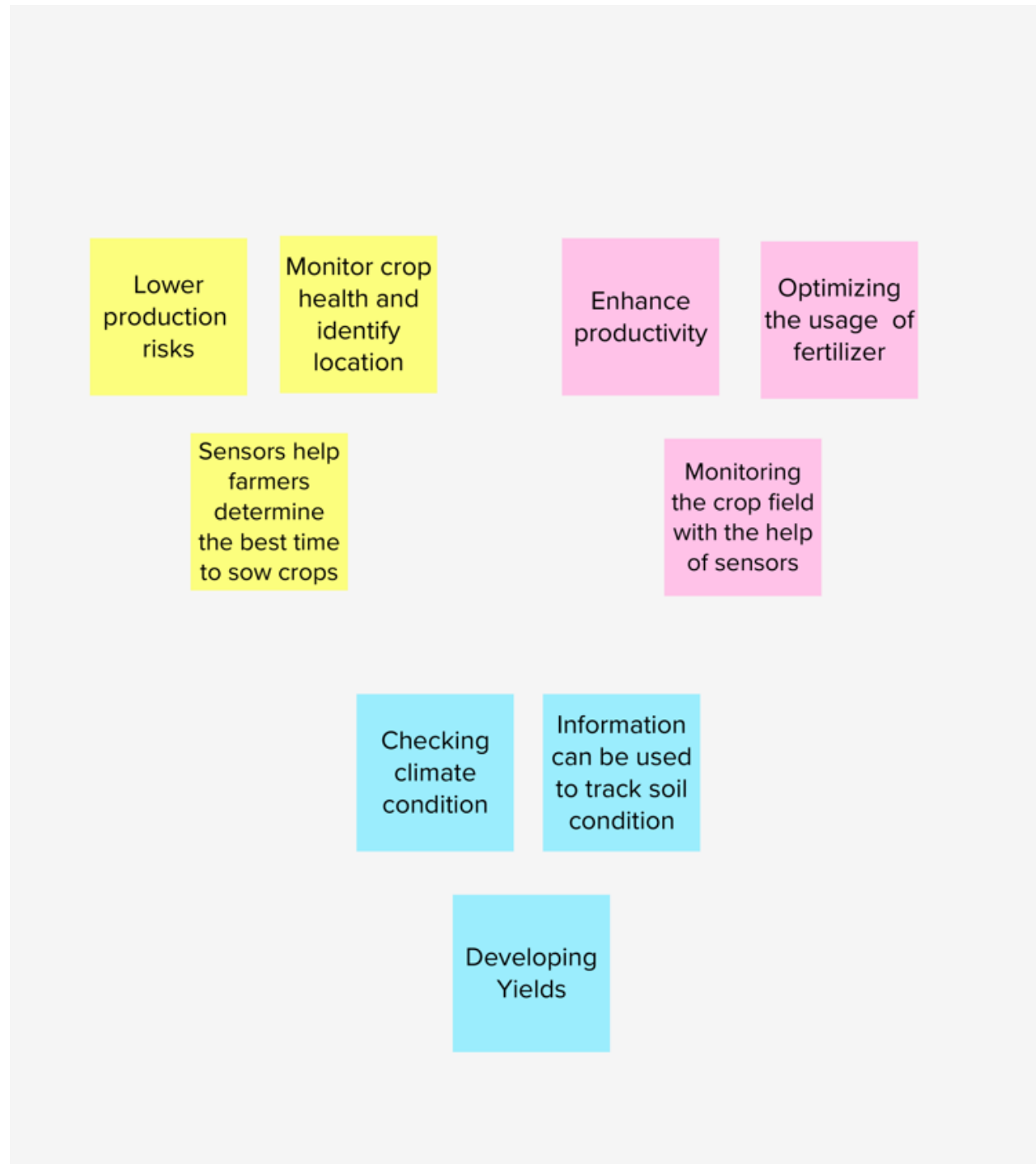|		
Optimizing the usage of fertilizer	IoT is used to carry out automatic and smart irrigation	Creating ideal climate condition for a good harvest
Lots of information gathered by Smart Agricultural sensors	Farmers employ satellite weather forecasts	Monitoring the crop field with the help of sensors

SOWMIYA G

Developing Yields	Checking climate condition	Smart farming has enabled farmers to reduce waste
Weather station with smart sensors can collect data	Monitor crop health and identify locations	Significantly gurantees high harvest yields

YUVASHANKARI K

Allow farmers to collect data on weather	Lower production risks	Sustainably increaing agricultural productivity and incomer
To accomplish independence in food creation	It has accurate ways to raising livestock	Detect the presence of pests

STEP 3:

Lower production risks

Monitor crop health and identify location

Enhance productivity

Optimizing the usage of fertilizer

Sensors help farmers determine the best time to sow crops

Monitoring the crop field with the help of sensors

Checking climate condition

Information can be used to track soil condition

Developing Yields

STEP 4: