


BRAINSTROM

SMART CROP PROTECTION FOR AGRICULTURE

TEAM ID: PNT2022TMID36188

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|---------------|---------------------------------------|
| Date | 08 october 2022 |
| Team ID | PNT2022TMID36188 |
| Project Name | Smart Crop Protection For Agriculture |
| Maximum Marks | 4 Marks |

Template



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.

Open article ➔

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

Crops in farms are many times ravaged by local animals like buffaloes,cows, goats,birds, mainly insects etc.It is not possible for farmers to barricade entire fields or stay on field 24 hours because of this problem we can't maintain a water level in soil



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.

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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!

Person 1: We can use fencing around a farmland. We can monitor a farm land by IoT based systems.

Person 2: We can use alarms sensor to avoid by insects in land. IoT devices able to sense a humidity of land.

Person 3: Automation irrigation system.

Person 4: It can send message through the device to phone. It alert a user. It can maintain a temperature.

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

TIP
Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

Real-time IoT platform and cloud-based data storage give a user the "smart agriculture" solution. In IoT-based systems, the primary source of collecting the data on a large scale.

IoT is an advanced sensor, and wireless network that built with artificial intelligence, machine learning, and cloud computing to collect, analyze, and act on data.

Smart crop monitoring refers to the application of advanced technologies such as IoT for monitoring the health of crops and resulting in the production of the crop production quality.

The primary goal of the smart crop monitoring system is to enhance the efficiency and productivity of the crop production process by providing real-time data and insights to farmers and agricultural professionals.

Planting, crop gathering, and control, watering, and control, other data and information, and crop monitoring systems and IoT-based sensors and data center control over these tasks effectively.

With IoT-based sensors performing soil condition monitoring, growers get instant warnings of soil salinity and moisture.

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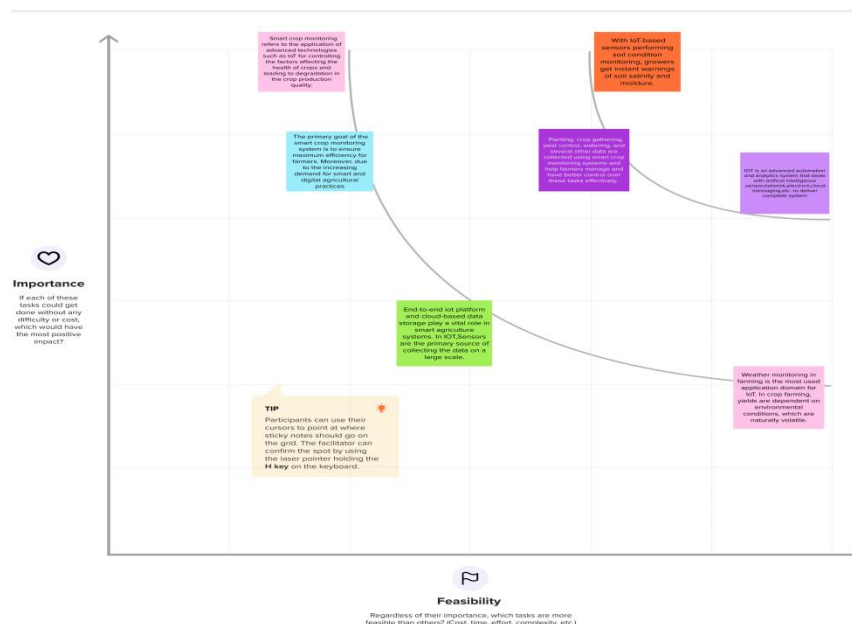
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4

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



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After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

- A Share the mural**
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.
- B Export the mural**
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward

- Strategy blueprint**
Define the components of a new idea or strategy.
[Open the template →](#)
- Customer experience journey map**
Understand customer needs, motivations, and obstacles for an experience.
[Open the template →](#)
- Strengths, weaknesses, opportunities & threats**
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
[Open the template →](#)

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