

IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE



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



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](#)



Team ID :
PNT2022TMID10536

Team Leader:
Satheesh

Team Members:
Selva
Mahalakshmi,
Shaik Badulla
Baba,
Shaik Fouzia
Tasneem

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 on farms are frequently attacked by local animals such as buffaloes, cows, goats, birds, and so on. Farmers suffer massive losses as a result of this. Farmers cannot block entire fields or remain on the field 24 hours a day. As a result, we suggest an automated crop protection system from animals.



Key rules of brainstorming
To run an smooth and productive session

Stay in topic.

Encourage wild ideas.

Defer judgment.

Listen to others.

2

Brainstorm

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

🕒 10 minutes

SATHEESH

SENSORS
TO DETECT
ANIMAL
MOVEMENT

COST
EFFICIENCY

USED SOLAR
PANEL TO
CHARGE THE
BATTERY

MULTIPLE
DATA
ANALYSIS

BADULLA BABA

ALARM TO
SCARE THE
SMALL
PREDATORS
LIKE BIRDS

REDUCE THE
ENVIRONMENTAL
FOOTPRINTS

USED SOLAR
PANEL TO
CHARGE THE
BATTERY

ALERT FENCING
SYSTEM USING
GSM

SELVA MAHALAKSHMI

MONITORING
AND
SURVEILLANCE

MOBILE
APPLICATION

REAL TIME
CROP
MONITORING

EFFECTIVE
ACCURATION
AND
ADAPTIVE

FOUZIA

PRECESION
FARMING

HIGHLY
FLEXIBLE
AND MORE

LOCAL DATA
ACQUISITION

REMOTE
CONTROLLED

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

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

UI DESIGN

MOBILE
APPLICATION

WEBSITE
ADD ON
FEATURE

MULTIPLE
DATA
ANALYSIS

FEATURES

HIGH
PRODUCTIVITY

MONITORING
AND
SURVEILLANCE

QUICK
RESULTS

PESTICIDE
CONTROL

MACHINE
LEARNING

TECHNOLOGIES

PRECESION
FARMING

GREEN
HOUSE
AUTOMATION

TIP
Add customizable tags to sticky notes to make it easier to browse, organize, and categorize important ideas as themes with the tag icon.

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
If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

TIP
Participants can use their cursors to point at where sticky notes should go on

the grid. The facilitator can confirm the spot by using the laser pointer holding the key on the keyboard.

