Ideation Phase

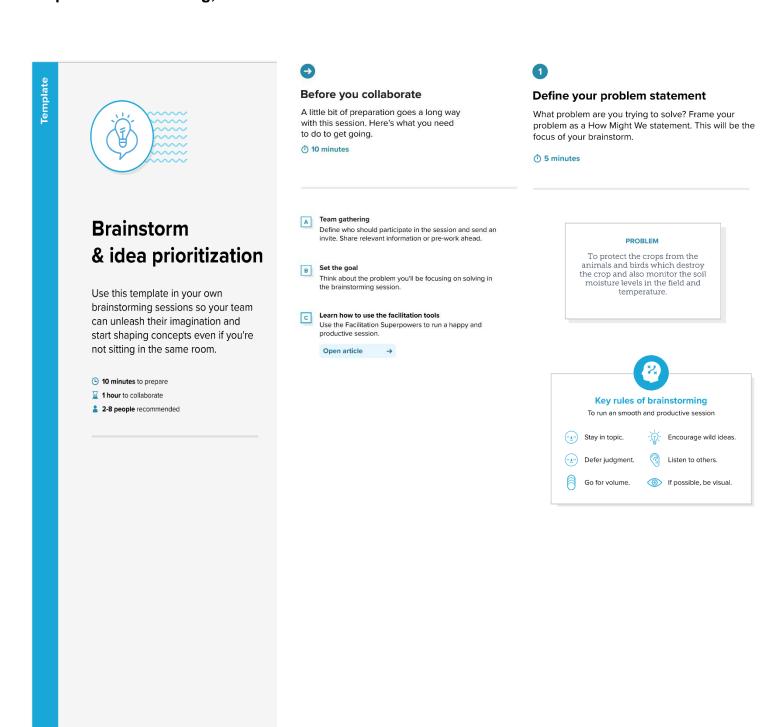
Brainstorm & Idea Prioritization Template

Date	19 September 2022
TeamID	PNT2022TMID04647
ProjectName	IoT Based Smart Crop Protection System for Agriculture
MaximumMarks	4Marks

Brainstorm & Idea Prioritization Template:

Share template feedback

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



Step-2: Brainstorm, Idea Listing and Grouping



Brainstorm

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

10 minutes





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.

① 20 minutes

HEMA

Arduino and sensor based animals monitoring system

Generate an alarm if any animals and birds detected

Farmers can keep an eye on crop from anywhere

Build effective early warning system can safegaurd our crops from the animals

KAMALI

By using electronic repellents we can safegaurd our crops in underground

Check the soil moisture levels

Motion sensor can be used to detect wild animals approaching near the field

Smoke sensor can be detect the fire

Ultrasonic sensor to detect the gesture of the animals

Less harm to animals and birds

By using fences we can also protect our crops

In night use of flash light tomthreaten the animals

This system is capable to protect the farm in day and night with

Also can use buzzer to scare the animals

In such case the sensor can signal the microcontroller now sounds to take an action

Microcontroller sounds an alarm to woo the animals away from the fields as well as sends SMS to the farmer

KISHORE

Using temperature

By using asm module

Alarm to frighten the birds and animals

Send a notification to farmer about the animal movement

MANIKANDAN

Remote monitoring Humidity can be measured using thermal humidity sensor

Cloud storage should be made effectively The whole system should be awter resistant

Sensor signals helps the microcontroller to take action Elimination of disturbance must be programmed correctly

Every data should be stored in the database for future reference

Final alert generation to farmer via sms. calls, alarm

If there is a smoke, it can immediately turns ON the motor

This can ensure complete safety of crops from animals and from fire thus protecting the farmer's loss

Step-3: Idea Prioritization

