Ideation Phase
Brainstorm & Idea Prioritization

Date	16 October 2022
Team ID	PNT2022TMID15968
Project Name	IoT Based Smart Crop Protection System for Agriculture
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

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

TEAM GATHERING:

Our team gathered to improve qualities of the iot smart crop protection for Agriculture with different ideas and thoughts.

Collaboration:

We have collaborated to success our team goal to protect the agriculture crops.

The Problem Statement:

The significant problem which raises the requirement of this project was that the traditional agriculture method consumes time, manual labor work and is also not cost efficient and protect from any other disturbance like animals, weather.

Step-2: Brainstorm, Idea Listing and Grouping

Step-3: Idea Prioritization

motion sensor can be used to detect wild animals approaching near the field and smoke sensor can be used to detect the fire.

In such a case the sensor can signal the microcontroller to take action. The microcontroller now sounds an alarm to woo the animals away from the field as well as sends SMS to the farmer and makes call, so that farmer may know about the issue and come to the spot in case the animals don't turn away by the 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.

Importance

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

We can use motion sensor to detect animals movement & make noise, so that they run away

Smoke sensor can be used to detect fire, so that we can turn on motor & sprinkle water

Notifications can be sent to farmer through IOT or sms in case any of the scenarios

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 **H key** on the keyboard.