IDEATION PHASE

BRAINSTORM & IDEA PRIORITIZATION

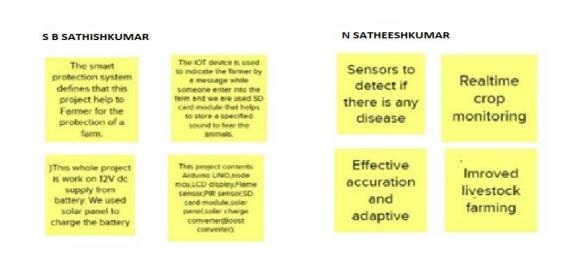| Date	19 September 2022
Team ID	PNT2022TMID15998
Project Name	IoT based smart crop protection system for agriculture
Maximum Marks	4 Marks

Step:1

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

How might we protect crop from being destroyed ?

Step: 2 Brainstorm, Idea Listing & Grouping:

BRAINSTORM:

S B SATHISHKUMAR

The smart protection system defines that this project help to Farmer for the protection of a farm.

The IOT device is used to indicate the farmer by a message while someone enter into the farm and we are used SD card module that helps to store a specified sound to fear the animals.

)This whole project is work on 12V dc supply from battery. We used solar panel to charge the battery

This project contents Arduino UNO,node mcu,LCD display,Flame sensor,PIR sensor,SD card module,solar panel,solar charge converter(Boost converter).

N SATHEESHKUMAR

Sensors to detect if there is any disease

Realtime crop monitoring

Effective accuration and adaptive

Imroved livestock farming

R SRIPATHI

Ultrasonic sensors are used to detect the animal movement

Alarm to scare the small predator like birds so on ....

T VISHNURAM

Necessary communication interface

Highly flexible and more accuration

Send intimation message to user where there is any movement of animals activities

Reduce the environmental footprints

Sensors to detect the any movement of the animals

Local data acquisation

GROUP IDEAS:

Improve yield and effictiveness

Remote monitoring

Solar ennergy can be harnessed to operate our prototype so that it can pave way to conventionalization

Improved livestock farming

Send intimation message to user for animal activities

Step:3

IDEA PRIORITIZATION: