Ideation Phase
Brainstorming

Date	19 September 2022
Team ID	PNT2022TMID17614
Project Name	Project – Smart Farmer - IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

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Problem Statement

What problem are you trying to solve?

🕐 **5 minutes**

PROBLEM

MONITORING OF THE FIELD AND TIME THAT IS REQUIRED TO MONITOR IS HIGH. AND ALSO TO MAINTAIN THE YIELD AT HIGH RATE.

Brainstorm

Ideas that address the Problems

🕐 **10 minutes**

Jaikrishnan

Communication is based on MQTT protocol

Light intensity BH 1750 sensor is used

ACQUI WEATHER COULD BE USED FOR WEATHER MONITOR

L293D is Used as the Motor driver

Arun Prasanth

Decision Tree Algorithm is used

Optical Sensor is Used place in the drone for moisture monitoring

Semiconductor based Sensor (range from -70 to 180 degree celcius)

Open Weather Map is used

Jayendra

IOT core is used

RTD sensor is used for temperature controll

Tensiometer Sensor is used

SPI serial pheriperal interface is used

Kamalesh

ATREE soil Sensor for moisture measurement

Serial USART can be used for Communication

RS-PH-N01-TR-1 can be used asPH sensor

Node Red can be used as the Programming tool

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Group ideas

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⏱ **20 minutes**

Protocols used

> Decision Tree Algorithm is used

> Communication is based on MQTT protocol

Sensord used

> Semiconductor based Sensor (range from -70 to 180 degree celcius)

> RS-PH-N01-TR-1 can be used asPH sensor

> Tensiometer Sensor is used

Programming tool

> Node Red can be used as the Programming tool

> Online Stimulation is done through Tinkercad

Interfacing Motor

> L293D is Used as the Motor driver

Prioritize

🕑 **20 minutes**

Importance

ACQUI WEATHER COULD BE USED FOR WEATHER MONITOR

MQTT protocol

Node Red can be used as the Programming tool

RTD sensor is used for temperature controll

Online Stimulation is done through Tinkercad

L293D is Used as the Motor driver

Decision Tree Algorithm is used

Feasibility

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