

Ideation Phase

Define the Problem Statements

Date	17-10-2022
Team ID	PNT2022TMID04663
Project Name	Smart Farmer-IOT Enabled SmartFarming Application
Maximum Marks	2 Marks

Customer Problem Statement:

Mr.Jagan has a farmland in his hometown and he is unable to take care of his land as he stays in abroad. He wishes to start a crop cultivation in his land with skilled farmers. He wants a solution to predict the moisture of the soil, weather changes, water level, availability of resources to use it effectively.

Who does the problem affect?	Persons who do Agriculture
What are the boundaries of the problem?	Labour cost, Cope with climate change, soil erosion and biodiversity loss.
What is the issue?	Unable to take care of their farmland.
When does the issue occur?	Increasing pressures from climate change, soil erosion, its mostly starts from first day farming
Why is it important that we fix the problem?	It is required for the growth of better-quality food products. It is important to maximize the crop yield. It is important to maintain soil Richness
What solution to solve this issue?	An application is introduced to know about various data about their land remotely, where they can schedule some events for a month or a day. It also provides suggestions to users based on the crop they planted.
What methodology used to solve the issue?	Some search results info from internet based on crop planted. Arduino microcontroller to control the process and various sensors for data. An alert message using GSM. An app built using MIT App Inventor.

