

Ideation Phase

Problem Statements

Date	12 October 2022
Team ID	PNT2022TMID21802
Project Name	Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Customer Problem Statement:

Mr. monish is a farmer with a background in diploma. Together with his father, he has ventured into agriculture. Since he is just starting out in farming, he needs someone to help him through the first few years. As he was educated. He also wants to incorporate technology into farming to cut down on work and labour, increase productivity, produce more, and get ideas for how to improve the soil and plant the next crop. He is actively looking into a few agricultural products that can help him. Many beginning and experienced farmers face these issues.

Who does the problem affect?	Persons who do Farming
What are the boundaries of the problem?	Climatic change, soil erosion, the integration of the sensor data to analytics driving automation and response activities.
What is the issue?	Small and fragmented land holdings, fertilizers and biocides, insufficient of water supply, loss in crops.
When does the issue occur?	Biodiversity loss, climate change, soil erosion, less rain at the time of farming.
Why is it important that we fix the problem?	It is required for the growth of better-quality food products. It is very helpful in increasing the crop yield and to maintain soil richness.
What solution to solve this issue?	An application is introduced where various data are stored about their land remotely. It also provides suggestions to users based on the crop they planted.
What methodology used to solve the issue?	IOT based sensors are connected 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.

Example:

