Ideation Phase

Date	19 September 2022
Team ID	PNT2022TMID30750
Project Name	Project – SmartFarmer - IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Customer Problem Statement :

      Mr.Rajesh is a Farmer. His Son is an Engineer. Though his son is an Engineer he is also interested in Farming So he joined with his Father and helped him. When he started working with his Father he noticed that they have do every work manually and that required a lot of Hard Work. Then he decided that they have to think of alternative ways which will reduce their work and increase their productivity. They need some advanced technologies where all their work can be done easily. So the son has to actively research on the crop planting ideas and techniques and have to come up with a better solution for more yield.

Who does the problem affect?	Farmers
What are the boundaries of the problem?	Difficulties in agriculture due to Climatic changes, Labour cost.
What is the issue and when does it occur?	Loss of agricultural land and decrease in varieties of crops due to climatic condition changes, Soil erosion.
Why is it important to fix that problem	It is important that the farmers to produce good quality food products. They have to maximize their yield of crops and also to maintain the richness of the soil.
What is the solution to solve this issue?	An Application should be developed in order to know about their field even when they are remote. And they should have this facility in scheduling their events that should be taken care of for over a respective period of time even when the farmer is not around the field.
Which methodology can be used to solve the issue?	Arduino microcontroller can be used to control the process and various sensors are used for the data. Then an alert message is given. This Application can be built using the MIT App Inventor.

I am	I'm trying to	But	Because	Which makes me feel
a Farmer	yield food crops in large scale	There is only less income and need to put in a lot of effort	of the improper guideness in the method of crop production	little worried and it reduces my hope

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