Ideation Phase

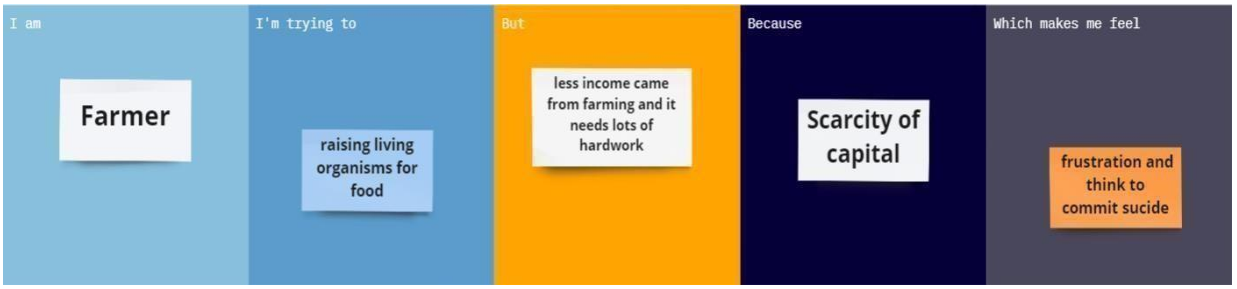
Define the Problem Statements

Date	14 November 2022
Team Id	PNT2022TMID04737
Project Name	Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Customer Problem Statement:

Mr. Kumar is a farmer with experience in engineering. With his father, he entered the agricultural industry. He needs someone to mentor him because he is just starting out in farming. He also plans to use technology to help with production, yield, suggestions to improve the soil, and ideas for growing the following crop. He is actively looking into a few agricultural goods that can help him. Many new and seasoned farmers confront these issues.

Who does the problem affect?	People who Work in Agricultural fields.
What are the boundaries of the problem?	Deal with the expense of labour, soil degradation, climate change, biodiversity loss and water management.
What is the issue?	Due to various climatic changes, the water level required for the crop varies.
When does the issue occur?	Increasing challenges from soil erosion and climatic change, which largely originates with the beginning of farming
Why is it important that we fix the problem?	It's necessary for the development of higher-quality water management. It's critical to increase cropyield. It's critical to keep the soil rich.
What solution to solve this issue?	Depending upon the measurement of the moisture of the soil from the sensors we can provide the necessary amount of water required for the crops.
What methodology used to solve the issue?	Depending on the crop cultivated, some internet searches return information. The process is controlled by an Arduino microcontroller, together with a number of sensors. a GSM-based alarm message. MIT App Inventor was used to create the app.


I am
Farmer
I'm trying to
raising living organisms for food
But
less income came from farming and it needs lots of hardwork
Because
Scarcity of capital
Which makes me feel
frustration and think to commit sucide