# Ideation Phase
# Define the Problem Statements

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID21357 |
| Project Name | Project – Smart Farmer-IoT Enabled Smart Farming Application |
| Maximum Marks | 2 Marks |

**Customer Problem Statement Template:**

Farming is a complex, unpredictable and individual business. Farmers must meet the changing needs of our planet and the expectations of regulators, consumers, and food processors and retailers.

There are increasing pressures from climate change, soil erosion and biodiversity loss and from consumers' changing tastes in food and concerns about how it is produced. And the natural world that farming works with – plants, pests and diseases – continue to pose their own challenges like Farmers need to deal with many problems, including how to: Cope with climate change, soil erosion and biodiversity loss Satisfy consumers' changing tastes and expectations ,Meet rising demand for more food of higher quality

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| Who does the problem affect? | Persons who do Agriculture |
| What are the boundaries of the problem? | Labor cost, Cope with climate change, soil erosion and biodiversity loss. |
| What is the issue? | Loss of agricultural land and the decrease in the varieties of crops and livestock produced. |
| 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. |

**Example:**


I am
a farmer
I'm trying to
to make my living by raising crops in my small piece of land
But
i'm facing some difficulties
Because
of unpredictable whether and raising expenses
Which makes me feel
Frustrated
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