Ideation Phase
Define the Problem Statements

Date	19 September 2022
Team ID	PNT2022TMID51406
Project Name	SmartFarmer- IoTEnabledSmartFarmingApplication11G
Maximum Marks	2 Marks

Customer Problem Statement Template:

Arun, a farmer with a background in engineering, together with his father, adventured into agriculture. Since he is just starting out in farming, he needs someone to help him through the first few years. He also wants to incorporate technology into farming to reduce work and labour, increase productivity and 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. The major issues faced are labour cost, cope with climate change, soil erosion and biodiversity losses. This may lead to loss of agricultural land and the decrease in the varieties of crops and livestock produced. These issues mainly occur due to increasing pressure from climatic changes, soil erosion which mostly starts from first day of farming. It is important to fix these issues as it is required for the growth of better-quality food products. It is important to maximize the crop yield and to maintain soil richness.

An application is developed to solve these issues. It 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. The methodology over this implementation is based on an arduino microcontroller to control the process and various sensors for gathering data about the field. An alert message is given using GSM and an app is built using MIT APP inventor.

I am	I'm trying to	But	Because	Which makes me feel
smart farmer	make a low cost moisture detector and crop recommender	it relatively takes slow response time	of rapid climatic changes	to think better to implement more accurate system