Ideation Phase

Define the Problem Statements

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| Project Name | Project – Smart Farmer-IoT Enabled Smart  Farming Application |

# Customer Problem Statement:

Mr.Veluswamy is a farmer who has knowledge in the engineering domain. He learned about agriculture watching and assisting his father. Since he is a beginner in farming, he needs someone to guide him in the initial years and he plans to incorporate technology into farming to reduce the work and labor, improve productivity, more yield, suggestions to improve soil, and next crop planting ideas. He is actively researching a few agri products that solve his problem. These problems are common to many beginning and experienced farmers.

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| Who does the problem affect? | Persons who do Agriculture |
| What are the boundaries of the problem? | Labour 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. |