

Ideation Phase
Define problem Statement

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| Date | 1 November 2022 |
| Team Id | PNT2022TMID12914 |
| Project Name | SmartFarmer - IoT Enabled Smart Farming Application |

Problem Statement:

The problem statement is overall queries given by farmers locally collected information by physical interaction of our team members with farmers. From the details given by farmers, the frequent problems faced by farmers are irregular irrigation of crops , low level of nutrient and mineral , labor cost, time consumption, and low level of productivity.

Solution:

Based on the queries given by farmers, the solution is smart farming system

Where the irrigation period can be monitor, nutrient can be improved by active testing of minerals by comparing with previous data,IOT based system reduces time consumption,increases productivity, reduces labor cost.

Ps:





| Problem statement | I am (Customer) | I'm trying to | But | because | Which makes me feel |
|-------------------|-----------------|--------------------------------------|---|--|------------------------------|
| PS 1 | Farmer | Keep crops healthy and organic | Faces difficult in determining the climate changes and moisture condition | I am not enough having information of technologies | To find solution |
| PS 2 | Farmer | Using anywhere anytime the devices | I cannot use in rural areas | There don't know about it | frustration |
| PS 3 | Farmer | Using the application users friendly | I can't understand the language | I don't know the language | We implement local languages |