

IDEATION PHASE

SMART FARMER – IOT ENABLED SMART FARMING APPLICATION

Date	19 September 2022
Team ID	PNT2022TMID04701
Project Name	Smart Farmer – IOT enabled Smart Farming Application
Max Marks	2

PROBLEM STATEMENT:

Mr. Somu is a farmer and he is new to the agriculture. He needs some guidance in the initial years and he is need of a technology to monitor different parameter of his field like soil moisture, temperature and humidity. He also requires some features to reduce the work, improve productivity, more yield, suggestion to improve soil and next crop planting ideas. He is in a search of solution that would enhance all his requisites.

Problem Affect	Customers are the farmers who want to reduce their work and complete it in a mean time.
Outcome	Cope up with the climate change, soil erosion and biodiversity loss, reduce the work time.
Problem or Barriers	No proper irrigation at the time, when the crop needed leads to less yield of crops. Low Soil moisture leads to loss of agricultural land.
Root Causes	There are no available instruments and technology that checks the unfavorable conditions .
Customer Emotions	They feel really difficult in monitoring the field physically by themselves.
Need to fix	For the growth of the better quality food products maximize the crop yield and maintain soil richness.
Solution	Using Mobile Application to collect the various data from the field and monitor the all the sensor parameters. By this he can make decision whether to water the crops or postpone and to control the motor pumps.

