Project Design Phase-I
Proposed Solution

Date	13 October 2022
Team ID	PNT2022TMID01185
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	*Many problems are faced by the farmers, some of them are,* *1.Soil erosion and soil nutrient loss,* *2.product satisfaction customers ,* *3.adaptation to climate,* *4.usage of harmful fertilizer and manure and pesticides,* *5.taking agriculture to the next generation,* *6.only fresh water can be used for farming.* *Farmers are more affected and annoyed by the above factors.*
2.	Idea / Solution description	*By providing an IoT integrated platform where all the agricultural devices and agricultural oriented servers are connected , where they can find solutions for the above problems like with climate and loss of soil nutrient by providing adequate knowledge by news feeds and for approximate climate prediction by performing analysis on the day to day weather.*
3.	Novelty / Uniqueness	Building a community of farmers around the globe will definitely do great, where they can find lots and lots of information about crops and plantations directly from the other farmers and the agricultural experts around the globe.

4.	Social Impact / Customer Satisfaction	The good thing is that IoT instructs or alerts them to do the amount of work at the right time. So that the yielding will be more and good, it also reduces the attention and time required to the field, which makes the Customer Satisfaction. On the other hand the main disadvantage is that IoT reduces the number of laborers and their wages, as a result many people may lose their work.
5.	Business Model (Revenue Model)	Many agricultural products like fertilizers, pesticides,manure, and field equipment can also be promoted in the form of ads. A small amount of subscription fee can also be collected from the farmers.
6.	Scalability of the Solution	The scalability of the above proposed solution is not limited. Here a lot of sensors and analysing tools and algorithms can be integrated to provide the best experience .