Project Design Phase-I

Date	26 September 2022
Team ID	PNT2022TMID07143
Project Name	Smart Farmer-IoT Enabled smart Farming Application

Proposed Solution:

S. No.	Parameter	Description
1.	Problem Statement	To provide efficient decision support system using wireless sensor network which handle different activities of farm and gives useful information related to farming. Different parameters of his field like soil moisture, temperature, and humidity. Due to the weather condition, water level will get increasing which is not good for agriculture.
2.	Idea	IoT-based agriculture system helps the farmer in monitoring different parameters of his field like soil moisture, temperature, and humidity using some sensors. Farmers can monitor all the sensor parameters by using a Smart Farmer-IoT Enabled smart Farming Application even if the farmer is not near his field.
3.	Novelty	So many researchers have been making efforts for smart farming by using IoT concepts in agriculture. But there is still plenty of unfolded challenges for their effective solution. This study makes some efforts to discuss past research and open challenges in IoT based agriculture.

4.	Social Impact	Modernization in the field of agriculture. It reduces the wages for labors who work in the agricultural field. It saves a lot of time.
5.	Business Model	The disintermediation type of model can be followed because it eliminates the need for middlemen for maintenance. A monthly subscription is charged to farmers for suggesting the irrigation timing based on sensors parameters like temperature, humidity, soil moisture.
6.	Scalability of the Solution	Scalability in smart farming refers to the adaptability of a system to increase the capacity, for example, the Smart Farmer-IoT Enabled smart Farming Application can be used to achieve the maximum yield and less wastage.