PROPOSED SOLUTION

Team ID	PNT2022TMID49973
Project Title	SmartFarmer – IoT Enabled Smart Farming Application

Proposed Solution Template:

S.No.	Parameters	Description
1.	Problem Statement (Problem to be solved)	To Develop App-based solution using IoT for achieving Smart Farming which includes monitoring different parameters like soil, moisture, temperature, and humidity using some sensors. Mostly Indian farming is dependent on rains, soil, dampness and environment challenges which is a big constrains for farmers. Lack of modern equipments, poor irrigation facilities and adopt & learn new technologies are also major issues in farming.
2.	Idea / Solution description	Smart Agricultural System solutions provide an integrated IoT platform in agriculture that allows farmers to leverage sensors, and monitoring systems to collect information, control various parameters on their farms and analyse real-time data in order to make informed decisions.
3.	Novelty / uniqueness	Various eminent researchers have been making efforts for smart farming by using IoT concepts in agriculture. But a bouquet of unfold challenges is still in a queue for their effective solution. This study makes some efforts to discuss past research and open challenges in IoT based agriculture.
4.	Social impact/ Customer satisfaction	Reduces the wages for labors who works in the agricultural field. It saves a lot of time. IoT can improve customer relationships by enhancing the customer's overall experiences.

5.	Business Model (Revenue model)	A monthly subscription is charged to farmers for prediction and suggesting the irrigation timing based on the sensors parameters like temperature, humidity and soil moisture
6.	Scalability of the solution	An IoT system development for agriculture could resolve many real-time issues by increasing the quality and production management which enables the farmers to access huge amount of results from the real-time data from the crop field.