PROPOSED SOLUTION

Team ID	PNT2022TMID22142
Project Title	Smart Farmer – IoT Enabled Smart Farming Application

Proposed Solution Template:

S.No.	Parameters	Description
1.	Problem Statement (Problem to be solved)	To create an app-based solution using IoT to achieve Smart Farming, which includes using sensors to monitor various parameters such as soil, moisture, temperature, and humidity. Rains, soil, dampness, and other environmental challenges are major constraints for farmers in India. Lack of modern equipment, inadequate irrigation facilities, and the adoption and learning of new technologies are all major issues in farming.
2.	Idea / Solution description	Smart Agricultural System solutions provide an integrated IoT platform in agriculture that enables farmers to collect information, control various parameters on their farms, and analyse real-time data to make informed decisions.
3.	Novelty / uniqueness	Several eminent researchers have been working on smart farming by incorporating IoT concepts into agriculture. However, a slew of unfolding issues are still waiting for an effective solution. This study attempts to discuss previous research as well as open challenges in IoT-based agriculture.
4.	Social impact/ Customer satisfaction	Wages for agricultural labourers are being reduced. It saves a significant amount of time. IoT can improve customer relationships by improving the overall experience of the customer.

5.	Business Model (Revenue model)	Farmers are charged a monthly subscription fee for predicting and recommending irrigation timing based on sensor parameters such as temperature, humidity, and soil moisture.
6.	Scalability of the solution	An IoT system development for agriculture could solve many real-time issues by improving quality and production management, allowing farmers to access a massive amount of data from the crop field in real time.