Project Design Phase-I
Proposed Solution Template

Team ID	PNT2022TMID15028
Project Name	Project - SmartFarmer - IoT Enabled Smart Farming Application

Proposed Solution Template:

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To provide a effective decision support system farming with a wireless sensor network that manages various agricultural activities and provides pertinent farm information like temperature, humidity, soil moisture content, motion detection and pH level detector. There are many factors which are bad for agriculture.
2.	Idea / Solution description	An integrated IoT platform for agriculture is provided by the SmartFarmer - IoT Enabled Smart Farming Application. This platform enables farmers to use sensors, smart gateways, and monitoring systems to gather data, manage numerous agricultural factors, and analyse real-time data to make optimal decisions that yields high produce.
3.	Novelty / Uniqueness	The use of IoT principles in agriculture has been the focus of many renowned scientists working toward smart agriculture. But there are still a variety of issues that haven't yet found an appropriate solution. This study makes an effort to explain prior research and

		unsettled issues in IoT-based agriculture. The majority of products on the market focus on a certain area of agriculture study, but very few do so as a whole.
4.	Social Impact / Customer Satisfaction	By reducing the quantity of fertiliser used on the field, which lowers costs considerably, makes it easier to monitor the field, and lowers pay for agricultural labourers. It helps you save lots of time. By boosting the client experience overall, Our application can assist in enhancing customer connections.
5.	Business Model (Revenue Model)	Farmers will be required to pay a monthly subscription for the service of irrigation timing recommendation and forecast based on sensor characteristics such as temperature, humidity, and soil moisture even when an intruder is present in the fields. Through the promotion of the custom manufacturing of raw materials for the desired condition, which will be described in terms of easy home recipes or they can order it if its in mass production.
6.	Scalability of the Solution	Scalability in this type of smart farming refers to the ability to adapt to a systematic increase in the capacity of a large market, for instance, the number of technology devices such as sensors and actuators, while enabling timely analysis will yield organic or highend product in mass production that can also be sold with the affiliation of our brand which brigs marketing reach and also the need of people for good produces, which in turn returns huge profit margin.