Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID46724
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Proposed Solution Template

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Our project will be give the problem statement in Smart farming application using IOT. Historybased soil health parameters like soil moisture, pHlevel, temperature, etc
2.	Idea / Solution description	It collects the data from different types of sensors and it sends the value to the main server. It also collects the weather data from the weather API. The ultimate decision, whether to water the crop or not is taken by the farmer using mobile application.
3.	Novelty / Uniqueness	Smart farming, which involves the application of sensors and automated irrigation practices, can help monitor agricultural land, temperature, soil moisture, etc. This would enable farmers to monitor crops from anywhere.
4.	Social Impact / Customer Satisfaction	The information collected are from reliable sources and hence the farmer could make more precise decision, thereby the productivity increases.
5.	Business Model (Revenue Model)	Climate-smart agriculture is a pathway towards development and food security built on three pillars: increasing productivity and incomes, enhancing resilience of livelihoods and ecosystems and reducing and removing greenhouse gas emissions from the atmosphere.
6.	Scalability of the Solution	Automatic farming equipment adjustment is made feasible by integrating information such as crops/weather and equipment to automatically alter temperature, humidity, andso on. With the use of sensors, it has enabled Farmers to reduce waste and increase output.