Project Design Phase-I Proposed Solution

Date	19.10.2022
Team ID	PNT2022TMID41134
Project Name	Smart Farmer – IOT Enabled Smart Farming Application
Maximum Marks	4 Marks

Proposed Solution Template:

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

S.No.	eam shall fill the following informati Parameter	Description
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1.	Problem Statement (Problem to be solved)	 Farmers are under pressure to produce more food AND use less energy and water in the process. A remote monitoring and control system will help farmers deal effectively with these pressures.
2.	Idea / Solution description	 Smart farming refers to managing farms using modern Information and communication technologies to increase the quantity and quality of products while optimizing the human labor required. Among the technologies available for present-day farmers are: Sensors: soil, water, light, humidity, temperature management
3.	Novelty / Uniqueness	 Smart farming combines concepts (precision agriculture, land management), scientific fields (earth observation, climate science) and cutting-edge technologies (image processing, GIS, UAV, multispectral/hyperspectral imaging) that could improve the agricultural production. Each one of the aforementioned subfields involves different techniques and methods that offer the capability of being explored in depth. Agraement techniques and methods that offer the capability of being explored in depth.
4.	Social Impact / Customer Satisfaction	Major tech innovations in farming such as automation and robotics, livestock technology, modern greenhouse practices, precision agriculture and artificial intelligence and blockchain are enabling the shift towards modern farming practices

		The journey from the farmer to the consumer in a food business is paramount to ensuring quality and taste for the consumer while empowering farmers.
5.	Business Model (Revenue Model)	24.3 21.5 2018 2019 2021 2022 2023 2024 2025 2026 2027 2028
6.	Scalability of the Solution	Scalability in smart farming refers to the adaptability of a system to increase the capacity, the number of technology device such as sensor and actuators