Project Design Phase-I
Proposed Solution Template

Date	19 september 2022
Team ID	PNT2022TMID21802
Project Name	Project – Smart Farmer-IoT enabled smart farming application.
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	✓ In Village Side, the power supply may vary. The Biggest Challenges Faced by IoT in the Agricultural Sector are Lack of Information, High Adoption, Cost and Security Concerns, etc ✓ To make farming easier by choosing several constraints in agriculture and to overcome those constraints, to increase production quality and quantity using IOT.
2.	Idea / Solution description	✓ Using smart techniques like monitoring farms climate, smart irrigation and soil analysis. ✓ The Data collected by sensors, In terms of humidity, temperature, moisture, and dew detections help in determining the weather pattern in Farms. So cultivation is done for suitable crops.
3.	Novelty / Uniqueness	✓ Solar power smart irrigation system which helps you to monitor temperature, moisture ,humidity using smart sensors. ✓ It helps the farmer to operate the motor from anywhere
4.	Social Impact / Customer Satisfaction	✓ It is better than the present modern irrigation system by using this method we can control soil erosion. There will be better production yield. ✓ It saves a lot of time. ✓ IoT can help improve customer relationships by enhancing the customer's overall experience. ✓ Easily identify maintenance needs, build better products, send personalized communications, and more.
5.	Business Model (Revenue Model)	✓ As the productivity increases customer satisfaction also increases and hence need for the application also increases,

		which increases the revenue of the business.
6.	Scalability of the Solution	✓ It is definetly scalable we can increase the constraints when the problem arises. ✓ It is adaptability of a system to increase the capacity, for example, the number of technology devices such as sensors and actuators, while enabling timely analysis.