

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID11377
Project Name	Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

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)	In earlier days farmers used to calculate the readiness of soil and impacts doubts that created to sort the yield but they did not consider the level of water, particular atmospheric condition and identification of any humans or animals etc., throughout their land in un prescribed time.
2.	Idea / Solution description	Using Smart Agriculture, the moisture content of the soil is measured, if moisture level is low the water will be supplied to the plant. Fencing is done throughout the land to detect people and animals wandering throughout the land in unnecessary timings. Smoke detectors are used in both field and warehouse it is useful for the farmers to maintain their crops. To maintain database of the crops and products in the warehouse the expiry date is mentioned while loading in the warehouse if the expiry date is nearer then it must indicate the farmer in app/web.
3.	Novelty / Uniqueness	Smart Farming is a topic circulating everywhere but when it comes to practical life it is quite difficult to make it applicable thereby, I justify that smoke detectors are used in both field and warehouse it is useful for the farmers to maintain their crops. To maintain database of the crops and products in the warehouse the expiry date is mentioned while loading in the warehouse if the expiry date is nearer then it must indicate the farmer in app/web.
4.	Social Impact / Customer Satisfaction	Agriculture is the major component of a developing country like India. The fundamental aim of agriculture is to lift stronger and more fruitful crops and plants and to help them for their growth by improving the soil and supplying the water.

		Now a days many people prefer organic products through which it would not harm the human ecosystem.
5.	Business Model (Revenue Model)	<p>To maintain database of the crops and products in the warehouse the expiry date is mentioned while loading in the warehouse if the expiry date is nearer then it must indicate the farmer in app/web.</p> <p>In case if the expiry date is nearer offers would be given to dispatch all the products before the expiry date.</p>
6.	Scalability of the Solution	To extend or shrink the database management for crops and to provide cent percent efficient product in terms of both hardware and software components.