

Project Design Phase-I Proposed Solution Template

Date	19 October 2022
Team ID	PNT2022TMID24104
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)	Farmers facing many problems in now-a-days, which includes how to cope with climate change, soil erosion, biodiversity, scarcity of water etc.....So we are solving these issues in agriculture by "Developing a IOT based smart farming System to monitor the field and Irrigation"..
2.	Idea / Solution description	It is a network of different devices which make a selfconfiguring network. The new developments of Smart Farming with use of IoT, by day turning the face of conventional agriculture methods by not only making it optimal but also making it cost efficient for farmers and reducing crop wastage.
3.	Novelty / Uniqueness	IOT based Smart Farming improves the entire Agriculture system by monitoring the field in real time With the help of sensors and inter connectivity, the Internet of Things in Agriculture has not only saved the time of the farmers but has also reduced the extravagant use of resources such as Water and Electricity.
4.	Social Impact / Customer Satisfaction	Smart farming, the dependency on manual labor has reduced significantly. The processes like pest control, fertilizing, and irrigation are increasingly becoming automated, and farmers can control them remotely. The use of smart IoT sensors can maintain these

		processes, increasing crop production.
5.	Business Model (Revenue Model)	<p>It is trying to execute this technique as we need to introduce an arduino gadget which was modified with</p> <p>an Arduino that takes received signals from sensors.</p> <p>Easy operatability and maintenance. Required low time for maintain. Cost is reasonable.</p>
6.	Scalability of the Solution	<p>Scalability in smart farming refers to the adaptability</p> <p>of a system to increase the capacity. For example, the</p> <p>number of technology devices such as sensors and actuators while enabling time analysis.</p>