

Project Design Phase-I
Proposed Solution

Date	23 September 2022
Team ID	PNT2022TMID29852
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Proposed Solution:

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	IoT-based agriculture system helps the farmer in monitoring different parameters of his field like soil moisture, temperature, and humidity using some sensors.
2.	Idea / Solution description	Farmers can monitor all the sensor parameters by using a web or mobile application even if the farmer is not near his field. Watering the crop is one of the important tasks for the farmers. They can make the decision whether to water the crop or postpone it by monitoring the sensor parameters and controlling the motor pumps from the mobile application itself.
3.	Novelty / Uniqueness	Configuring APIs using Node-RED for communicating with a mobile application.
4.	Social Impact / Customer Satisfaction	Doubles the farmer income, higher production, food security.
5.	Business Model (Revenue Model)	Government driven models, community/contract farming models.
6.	Scalability of the Solution	If we are not near the field, using sensors we can water to the crop and controlling the motor pumps from the mobile application.