Project Design Phase-I
Proposed Solution

Date	24 September 2022
Team ID	PNT2022TMID26547
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)	Farmers should be in the farm field to monitor their crop field, if any emergency occurs for farmer to go outside there will be lack of irrigation in farm field which lead to damage in crops health
2.	Idea / Solution description	IoT-based agriculture system helps the farmer to monitoring different parameters of his field like soil moisture, temperature, and humidity using some sensors by using a web or mobile application
3.	Novelty / Uniqueness	when the farmer is not near his field, he 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.
4.	Social Impact / Customer Satisfaction	A monthly subscription is charged to farmers for prediction and suggesting the irrigation timing based on sensors parameters like temperature ,humidity, soil moisture.
5.	Business Model (Revenue Model)	A monthly subscription is charged to farmers for prediction and suggesting the irrigation timing based on sensors parameters like temperature, humidity, soil moisture.
6.	Scalability of the Solution	Image recognition-based prediction of crops health Ai based automated irrigation using temperature, pressure, humidity, and soil moisture sensors