

Project Design Phase-I Proposed Solution

Date	24 September 2022
Team ID	PNT2022TMID07205
Project Name	Project – SMART FARMER(IoT Enabled Smart Farming Application)
Maximum Marks	2 Marks

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none">✓ Farmer are to be present at farm for its maintenance irrespective of the weather conditions.✓ They have to ensure that the crops are well irrigated and the farm status is monitored by them physically.✓ Farmer have to stay most of the time in field in order to get a good yield.✓ In difficult times like in the presence of pandemic also they have to work hard in their fields risking their lives to provide food for the country.✓ Hence there is a need of smart farming application
2.	Idea / Solution description	<ul style="list-style-type: none">✓ This system can monitor soil moisture and climatic conditions to grow and yield a good crop.✓ This can also get the real time weather forecasting data by using external platforms like Open Weather API.✓ Farmer will be provided a mobile app or a web app which is used to monitor the farming field parameters.✓ Based on all parameter, farmer can water his crop by controlling the motor using the application.✓ Even in the absence of farmer near the field, Farmer can able to monitor

		the field using the application from anywhere.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> ✓ Farmer will be provided with the web application link or mobile application which can be accessed by the farmer from anywhere, the application need only internet connection on their mobile phone. ✓ OpenWeather API is used to analysis the global weather data and the farming land weather data.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ✓ The main aim of the project is to help farmers by providing them with a web or mobile application. ✓ By using the application farmer can monitor all the parameters of the field such as temperature, humidity, soil moisture, etc... ✓ And even they can be able to control the equipments the fields like water motors and other devices remotely via internet.
5.	Scalability of the Solution	<ul style="list-style-type: none"> ✓ Even if the number of users increases , the system will perform well.