

Project Design Phase-I
Proposed Solution Template

Date	10 OCTOBER 2022
Team ID	PNT2022TMID18361
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)	Smart Farmer – IOT Enabled Smart Farming Application
2.	Idea / Solution description	<p>The parameters like temperature, humidity, and soil moisture are updated to the Watson IoT platform.</p> <p>The device will subscribe to the commands from the mobile application and control the motors accordingly.</p> <p>APIs are developed using Node-RED service for communicating with Mobile Application.</p> <p>A mobile application is developed using the MIT App inventor to monitor the sensor parameters and control the motors.</p>
3.	Novelty / Uniqueness	Based on the collected data, the mobile application will instructs the farmer to monitor and control the motors accordingly.
4.	Social Impact / Customer Satisfaction	<p>Manpower will be reduced and increasing the yield.</p> <p>Better monitoring and provide a feasible solution.</p>
5.	Business Model (Revenue Model)	<p>According to the data present in the Watson IoT platform, the device will control the motors.</p> <p>A mobile application is developed using the MIT App inventor to monitor the sensor parameters and control the motors.</p>
6.	Scalability of the Solution	<p>Developing the product in mobile application it is portable and data can be accessed from anywhere anytime.</p> <p>It will provide a real-time monitoring and a feasible solution for remote or distant places.</p>