

Project Design Phase-I Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID46404
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)	<ul style="list-style-type: none"> ❖ Smart farming solves the monitoring problem by enabling the remote monitoring feature that enables to increase yield and quality of product. ❖ Smart irrigation help to remotely control irrigation that pumps according to the crop water requirements.
2.	Idea / Solution description	<ul style="list-style-type: none"> ❖ Farmers can monitor all the sensor parameters by using a web or mobile applications to get data about condition of crop, soil, climate. ❖ Warn the farmer regarding any undesirable change in the weather condition and suggest pre-emptive measures.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> ❖ Low cost system. ❖ Improving crop quality of regulating the parameters to the optimum levels. ❖ Alert message. ❖ Remote access.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ❖ Doubles the farmer income. ❖ Higher production. ❖ Food security.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> ❖ Government Driven Models. ❖ Community / Contract farming Models. ❖ Health services.
6.	Scalability of the Solution	<ul style="list-style-type: none"> ❖ Smart farming uses modern technology to increase the quality and quantity of agricultural products. ❖ Sensors are relatively in expensive and the installation of set up is very easy. ❖ Improve internet connectivity in rural areas.