

Project Design Phase-I

Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID27109
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 Farming helps farmers to better understand the important factors such as water, topography, aspect, vegetation and soil types. This allows farmers to determine the best uses of scarce resources within their production environment.
2.	Idea / Solution description	The solution creates a digital map of a farm using a drone or satellite imaginary, which is overlapped with a grid of sensors spread across the farm that monitors multiple soli parameters ranging from temperature and moisture to carbon and nitrogen levels.
3.	Novelty / Uniqueness	The IoT system immediately alerts the farmer when the crops needs attention such as to water the crops, To check the temperature and to save other resources.
4.	Social Impact / Customer Satisfaction	It monitors the climate and weather conditions. When the weather conditions goes bad IoT Devices immediately alerts the farmer about the weather conditions to prevent the crops.
5.	Business Model (Revenue Model)	Now-a-days crops need more attention because sometimes farmer may forgot to water the crops or farmer might feed

		<p>more water than usual water limit. To save resources and maintain balance IoT system are used. These system models should be affordable for every farmer to buy and install it.</p>
6.	Scalability of the Solution	<p>When any problem arises then system can allow the famer to do things such as monitoring crops, surveying, and mapping the fields.</p> <p>The system provides data to farmers for rational farm management plans to save both time and money.</p>