

Project Design Phase – I

Proposed Solution Template

SMART FARMER – IoT ENABLED SMART FARMING APPLICATION

Team ID	PNT2022TMID12911
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S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none">• Monitoring and supplying water to the field is time consuming process for the farmers.• It is difficult for them to monitor their field when they are in remote place.• Major challenges faced by the IoT in the Agricultural sector are Lack of Information, High Adoption, Security.
2.	Idea/Solution Description	<ul style="list-style-type: none">• This IoT enabled smart farming application will help farmers to monitor and control their fields based on the sensor values such as humidity, moisture and temperature.
3.	Novelty/Uniqueness	<p>ALERT MESSAGE – IoT sensor nodes and edge devices collect information from the fields such as soil moisture, temperature and humidity and then it will transmit the collected data to the IoT cloud application.</p> <p>REMOTE ACCESS – Edge devices can be accessed from anywhere.</p>

4.	Social Impact/Customer Satisfaction	<ul style="list-style-type: none"> • The system will help the users in time conservation by automated process. • IoT device helps the customer by reducing the labor cost and Running cost of the plant. • IoT can also help e-commerce businesses thrive and increase sales.
5.	Scalability of the Solution	<ul style="list-style-type: none"> • Here Scalability refers to the adaptability i.e., a system can increase the capacity in terms of number of edge devices etc.,