


Project Design Phase - 1
Proposed Solution Template

Date	23 October 2022
Team ID	PNT2022TMID38157
Project Name	Smart Farmer – IOT Enabled Smart Farming Application
Maximum Marks	4 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">Most of the farmers use large portions of farming land and it becomes very difficult to reach and track each corner of large lands. Sometime there is a possibility of uneven water sprinkles.Challenges faced by IOT in agriculuture are high adoption, security concerns, information lackness.																								
2.	Idea / Solution description	<ul style="list-style-type: none">Smart Farming has enabled farmers to reduce waste and enhance productivity with the help of sensors (light, humidity, temperature, soil moisture,etc..)Further with the help of these sensors, farmers can monitor the field conditions from anywhere.																								
3.	Novelty / Uniqueness	<ul style="list-style-type: none">Role of SENSORS : IOT smart agriculture products are designed to help monitor crop fields using sensors and by automating irrigation systems.As a result, farmers and associated brands can easily monitor the field conditions from anywhere without any hassle.																								
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">Water conservationSaves lot of timeIncreased quality of productionReal time data and production insight.Remote monitoring.																								
5.	Business Model (Revenue Model)	 <table><caption>Revenue Growth Data (2018-2028)</caption><thead><tr><th>Year</th><th>Revenue (in millions)</th></tr></thead><tbody><tr><td>2018</td><td>~2.5</td></tr><tr><td>2019</td><td>~3.5</td></tr><tr><td>2020</td><td>~4.5</td></tr><tr><td>2021</td><td>11.5</td></tr><tr><td>2022</td><td>~6.5</td></tr><tr><td>2023</td><td>~7.5</td></tr><tr><td>2024</td><td>~8.5</td></tr><tr><td>2025</td><td>~9.5</td></tr><tr><td>2026</td><td>~10.5</td></tr><tr><td>2027</td><td>~11.5</td></tr><tr><td>2028</td><td>24.3</td></tr></tbody></table>	Year	Revenue (in millions)	2018	~2.5	2019	~3.5	2020	~4.5	2021	11.5	2022	~6.5	2023	~7.5	2024	~8.5	2025	~9.5	2026	~10.5	2027	~11.5	2028	24.3
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6.	Scalability of the Solution	<ul style="list-style-type: none">○ Scalability in smart farming refers to the adaptability of a system to increase the
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		capacity , the number of technology devices such as sensors and actuators.
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