Project Design Phase-I

Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID27433
Project Name	Smart Farmer - IoT Enabled
	Smart Farming Application
Maximum Marks	2 Marks

Proposed Solution

S.No.	Parameter	Description
1.	Problem Statement	The requirement of water for
		irrigation needs to be supplied in
		precise amount for proper growth
		of crops. Excess or less water can
		lead to poor growth and overall
		health.
2.	Idea/Solution	These problems can be
	description	overthrown by using the advanced
		IoT system for irrigation.
3.	Novelty/Uniqueness	The system will monitor the water
		level of the field and also the
		weather parameters of the
		particular location.
4.	Social Impact/Customer	The farmer/customer can be able
	Satisfaction	to assess the water level of the
	field through a mobile	field through a mobile application
		and the weather parameters to
		know whether it will rain or not.
5.	Business Model	Key Partners:
		• Farmers
		 Chemical Factories

Key Activities:

- The system will monitor the water level of the field.
- It will also report the weather conditions of the location which is efficient for plant growth.

Value Proposition:

- The Smart Irrigation System will reduce the workload of the farmer.
- It will be useful to preserve the excess water which can be used for growing other crops.
- The system can also be used in some chemical manufacturing factories in which the leakage of chemicals can be detected using the level indicator.

Cost Structure:

- Cost estimation:
 - ➤ The estimates will vary depending upon the cost of the sensors and the software used.
- Cost budget:
 - > The budget will be set based on the requirements of the Smart Irrigation system.
- Cost Control:
 - > The cost can be reduced by using efficient and low-cost sensors.

Scalability of the Solution	The Smart Irrigation System can send the information to the cloud so that it can be viewed from	
0.	o. Solution	anywhere which makes it an idea system for agricultural needs.