NALAIYA THIRAN

SMARTFARMER - IOT ENABLED SMART FARMING APPLICATION

Date	19 September 2022
Team ID	PNT2022TMID43471
Project Name	Project – IOT enabled smart farming application
Maximum Marks	4 Marks

Team members:

- Harikrishna. S
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PROBLEM STATEMENT:

IOT ENABLED SMART FARMING APPLICATION

TECHNOLOGY:

IOT

PROBLEM STATEMENT:

Despite a growing population, now predicted to reach 9.6 billion by 2050, the agriculture industry must rise to meet demand, regardless of environmental challenges like unfavorable weather conditions and climate change. To meet the needs of that growing population, the agriculture industry will have to adopt new technologies to gain a much-needed edge. New agricultural applications in smart farming and precision farming through IoT will enable the industry to increase operational efficiency, lower costs, reduce waste, and improve the quality of their yield.

IoT-based agriculture system helps the farmer in monitoring different parameters of his field like soil moisture, Temperature, humidity using some sensors. Farmers can monitor all the sensor parameters by using a web or mobile application even if the farmer is not near his field. Watering the crop is one of the important tasks for the farmers. They can make the decision whether to water the crop or postpone it by monitoring the sensor parameters and control the motor pumps from the mobile application itself. All the sensor parameters are stored in the IBM Cloudant DB.