

Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID44876
Project Name	IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE
Maximum Marks	4 Marks

Solution Architecture:

Irrigation is one of the most water-intensive agricultural activities in the world, which has been increasing over time.

Choosing an optimal irrigation management plan depends on having available data in the monitoring field. A smart agriculture system gathers data from several sources. However, the data are not guaranteed to be free of discrepant values which can damage the precision of irrigation management. Furthermore, data from different sources must fit into the same temporal window required for irrigation management and the data preprocessing must be dynamic and automatic to benefit users of the irrigation management plan. In this smart irrigation, such as data monitoring, preprocessing, fusion, synchronization, storage, and irrigation management enriched by the prediction of soil moisture.

Example - Solution Architecture Diagram:

