

Project Design Phase-I
Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID12689
Project Name	Smart Farmers IOT enabled Smart Farming
Maximum Marks	4 Marks

Solution Architecture:

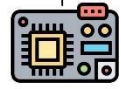
Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions.

Its goals are to:

1. Multiple Sensor nodes to read Parameters of the Field
2. IOT Enabled Microprocessor/Microcontroller board to read Sensor values and push data to cloud
3. Motor Controller (Solenoid Valve) connected with board
4. Mobile Application to view the Sensor Values in real time and to control Motor
5. Weather Forecast and Irrigation suggestion tools in the application

Example - Solution Architecture Diagram:

Sensor Nodes

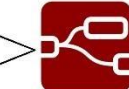


Microcontroller



Pump Control

IBM Cloud
Cloud
Platform



Node Red

**Mobile
Application**



User

Smart Farmers-IOT Enabled Smart Farming