Project Design Phase-I
Solution Architecture

Date	17 OCTOBER 2022
Team ID	PNT2022TMID12810
Project Name	SmartFarmer – IOT Enabled Smart Farming Application
Maximum Marks	4 Marks

Solution Architecture Diagram:
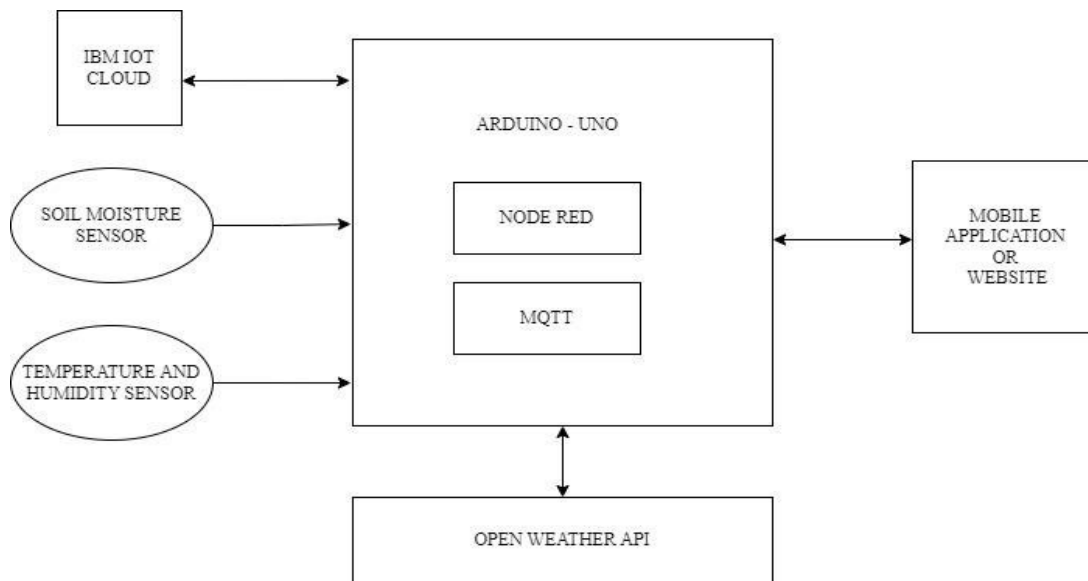
- In order to collect data about moisture level, temperature, humidity from field at real time, we will be using Temperature and Humidity Sensor (for example, DHT11), soil moisture sensor and various sensors as per need.

- The data collected from the sensor will be processed and updated in IBM IOT Cloud through microcontroller (for example, Arduino UNO)

- The Microcontroller (Arduino UNO) fetches data from the open weather API and it is programmed using NodeRED to make necessary decision.

- In this project, MQTT protocol which follow Publish Subscribe communication model is used to share data with user via website or mobile app (developed using MIT app inventor)