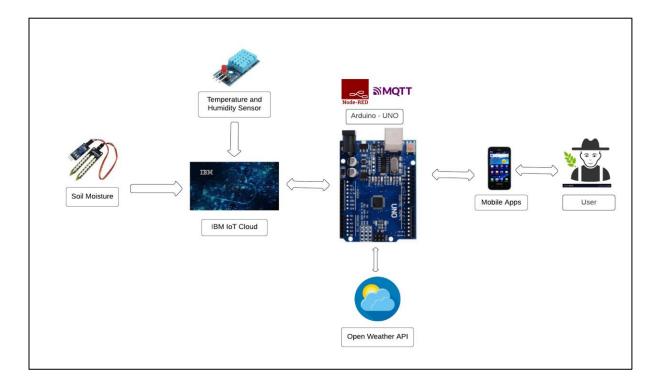
## **Project Design Phase - I**

## **Solution Architecture**

Date	26 October 2022
Team ID	PNT2022TMID40916
Project Name	Project–Smart Farmer-IoT Enabled Smart
	Farming Application
Maximum Marks	4Marks



- The different soil parameters (temperature, humidity, Soil Moisture) are sensed using different sensors, and the obtained value is stored in the IBM cloud.
- ArduinoUNO is used as a processing unitthat processes the data obtained from sensors and weather data from weather API.
- ❖ Node-red is used as a programming tool to wire the hardware, software, and APIs.
  The MQTT protocol is followed for communication.
- ❖ All the collected data are provided to the user through a mobile applicationthatwas developed using the MIT app inventor. The user could make a decision through an app, whether to water the crop or not depending upon the sensor values. By using the appthey can remotely operate the motor switch.