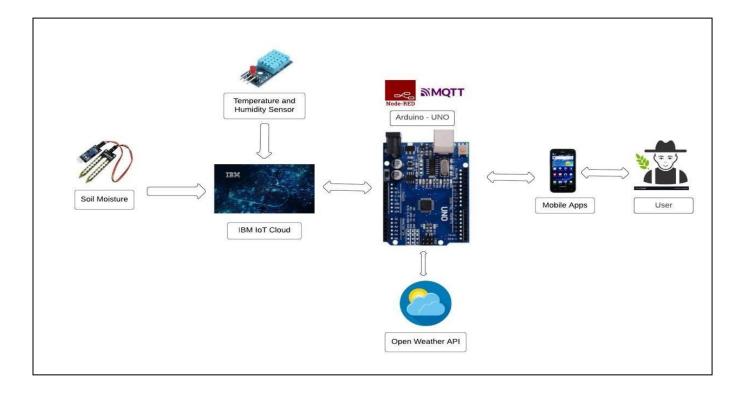
Project Design Phase - I

Solution Architecture

Date	22 October 2022
Team ID	PNT2022TMID25425
Project Name	Smart Farmer-IoT Enabled Smart
	Farming Application
Maximum Marks	4 Marks



- The different soil parameters (temperature, humidity, Soil Moisture) are sensed using different sensors, and the obtained value is stored in the IBM cloud.
- ♣ Arduino UNO is used as a processing unit that 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 application that was 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 app, they can remotely operate the motor switch.