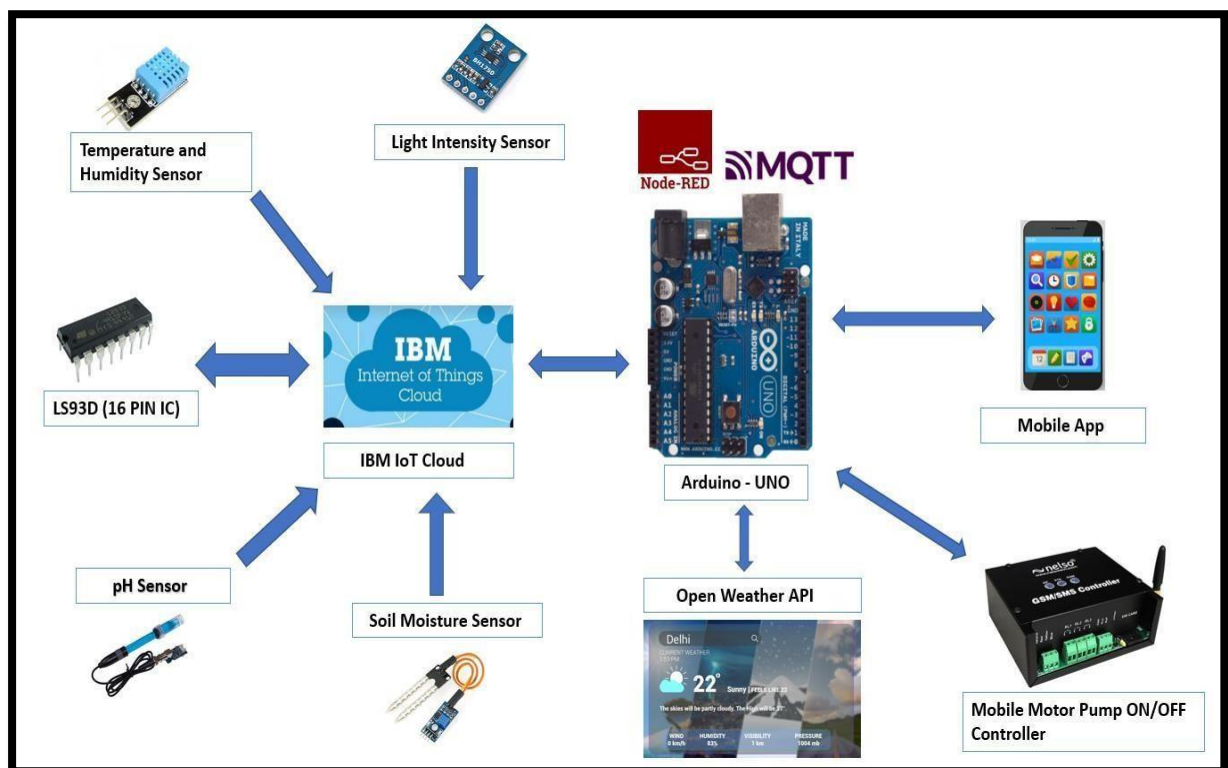


Solution Architecture

Date	9 October 2022
Team ID	PNT2022TMID22196
Project Name	IoT based smart crop protection system foe agriculture
Maximum Marks	4 Marks



Key points:

- Sensors sense different soil parameters (temperature, humidity, light intensity, pH level) and the values are stored in IBM cloud.
- The Arduino UNO is the main processing element which works based on the data obtained from the sensors used and also the weather data from the weather API.
- Wiring the hardware, software, and APIs using Node Red is done using this programming tool.
- Communication is based on the MQTT protocol.
- We developed a mobile application to provide users with access to all collected data.
- Sensor values determine when the crop is watered by the Mobile Motor Pump controller.