## Smart Farmer - IOT Enabled Smart Farming Application - Solution Architecture

**TEAM ID: PNT2022TMID38789** 

**TEAM LEADER:** 

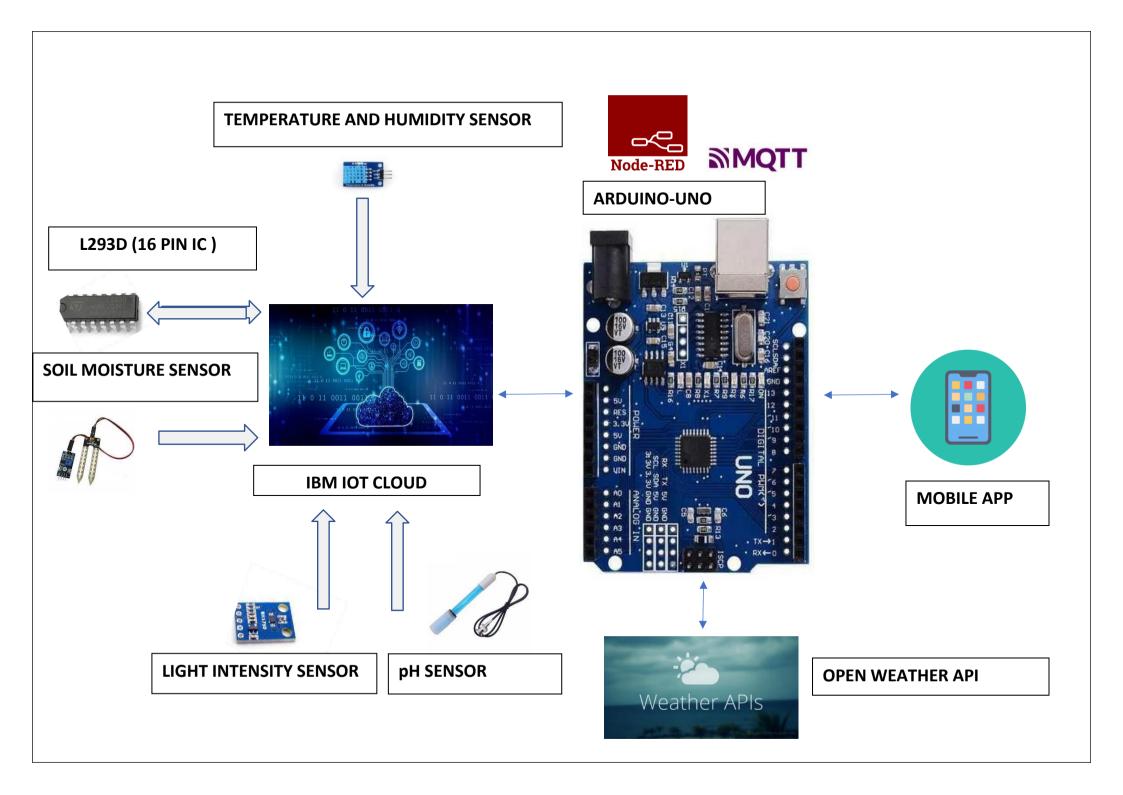
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- The different soil parameters (temperature, humidity, light intensity, pH level) are sensed using different sensors and the obtained value is stored in IBM cloud.
- Arduino UNO is used as a processing unit which processes the data obtained fromsensors 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
  which was developed using MIT app inventor. The user could make decision
  through an app, whether to water the crop or not depending upon the sensor
  values.