Smart Farmer - IOT Enabled Smart Farming Application - Solution Architecture

TEAM ID: PNT2022TMID12850

TEAM LEADER:

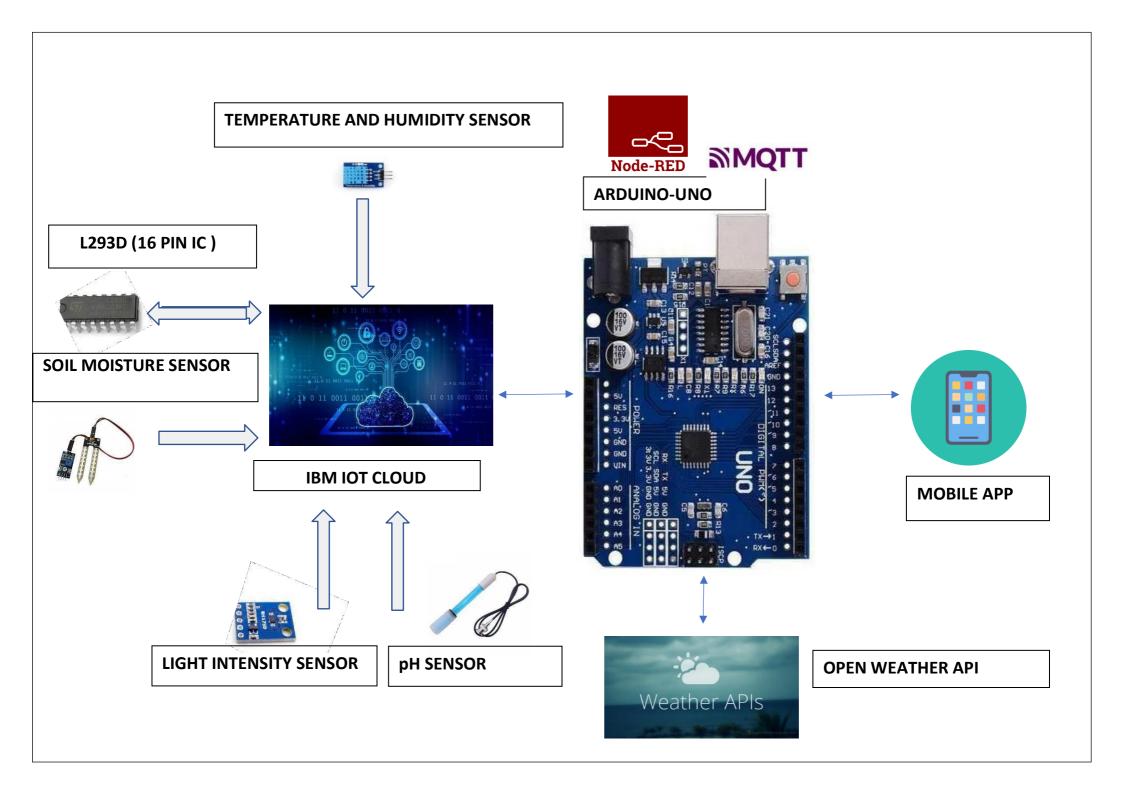
J Sajitha

TEAM MEMBERS:

Jegadeesh Kumar V

Kalaimani M

Priyadharshini S



- 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 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
 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.