Project Design Phase - I

Solution Architecture

Date	14 October 2022
Team ID	PNT2022TMID28270
Project Name	Project – Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	4 Marks
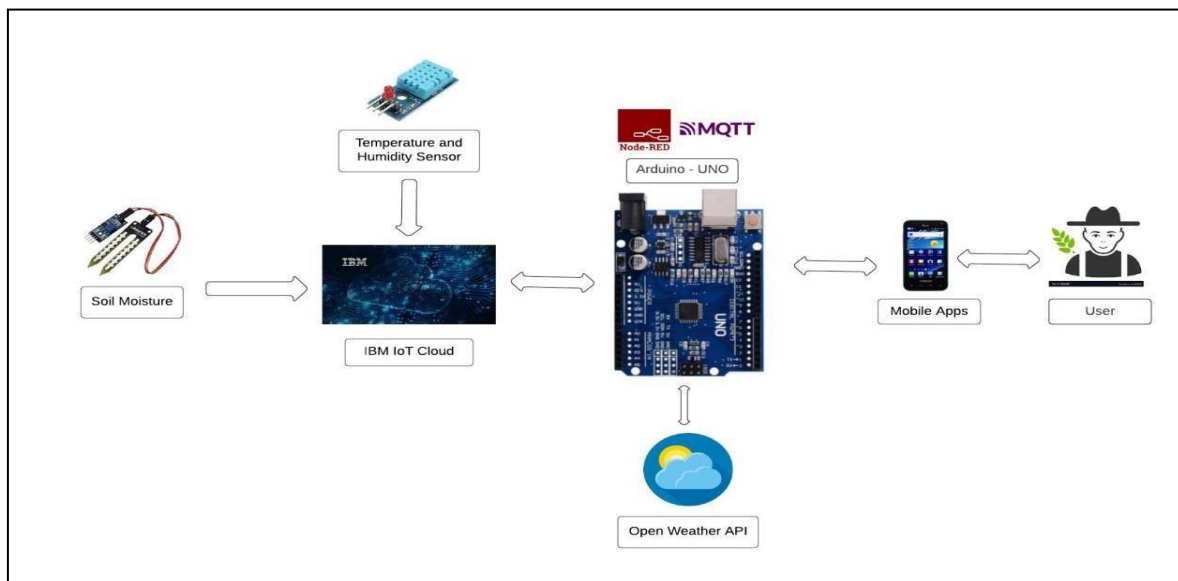
- Utilizing a variety of sensors, the various soil parameters (temperature, humidity, and soil moisture) are measured, and the results are saved in the IBM cloud.
- The processing unit used to process weather data from weather API and data from sensors is called Arduino UNO.
- The hardware, software, and APIs are wired using the programming tool Node-red.
- For communication, the MQTT protocol is used.
- Through a smartphone application created with the aid of MIT App Inventor, the user is given access to all the collected data. Depending on the sensor results, the user may decide whether to irrigate the crop or not using an app. *They can control the motor switch from a distance using the app.