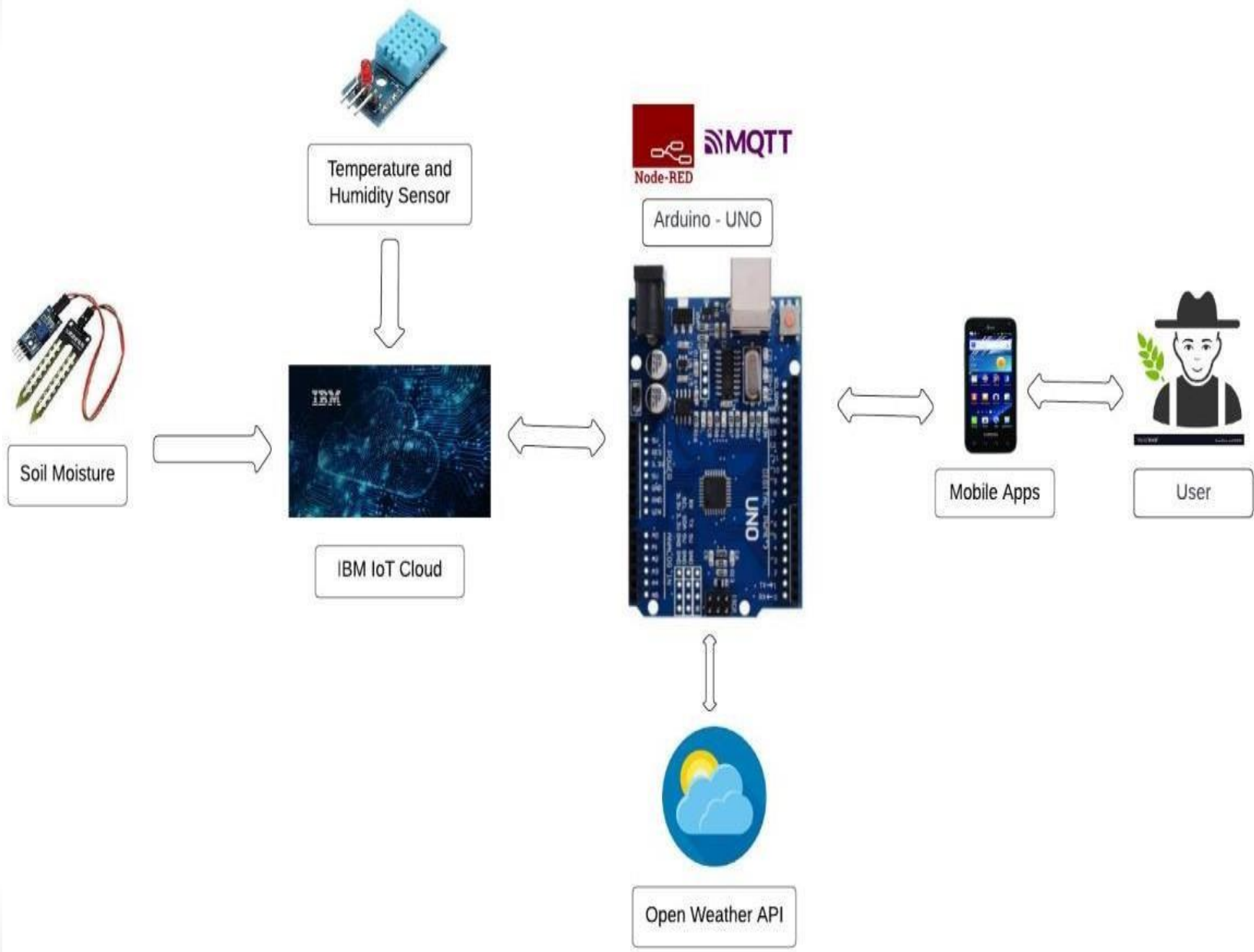


Project Design Phase - I

Solution Architecture

Date	01 November 2022
Team ID	PNT2022TMID26085
Project Name	Project – Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	4 Marks



Few Words About the Design...

- The various soil parameters including temperature, humidity, and soil moisture, are measured using various sensors, and the results are stored in the IBM cloud.
- The processing unit-Arduino UNO, is used to process the weather data from weather API as well as input from sensors.
- The hardware, software, and APIs are wired using Node-red as a programming tool. For communication-The MQTT protocol is used.
- Through a smartphone application created with the help of MIT App Inventor, the user can control and access all the collected data.
- Depending on the sensor results, the user may decide whether to irrigate the crop or not based on the result using an app. They can control the motor switch from anywhere through the created app.