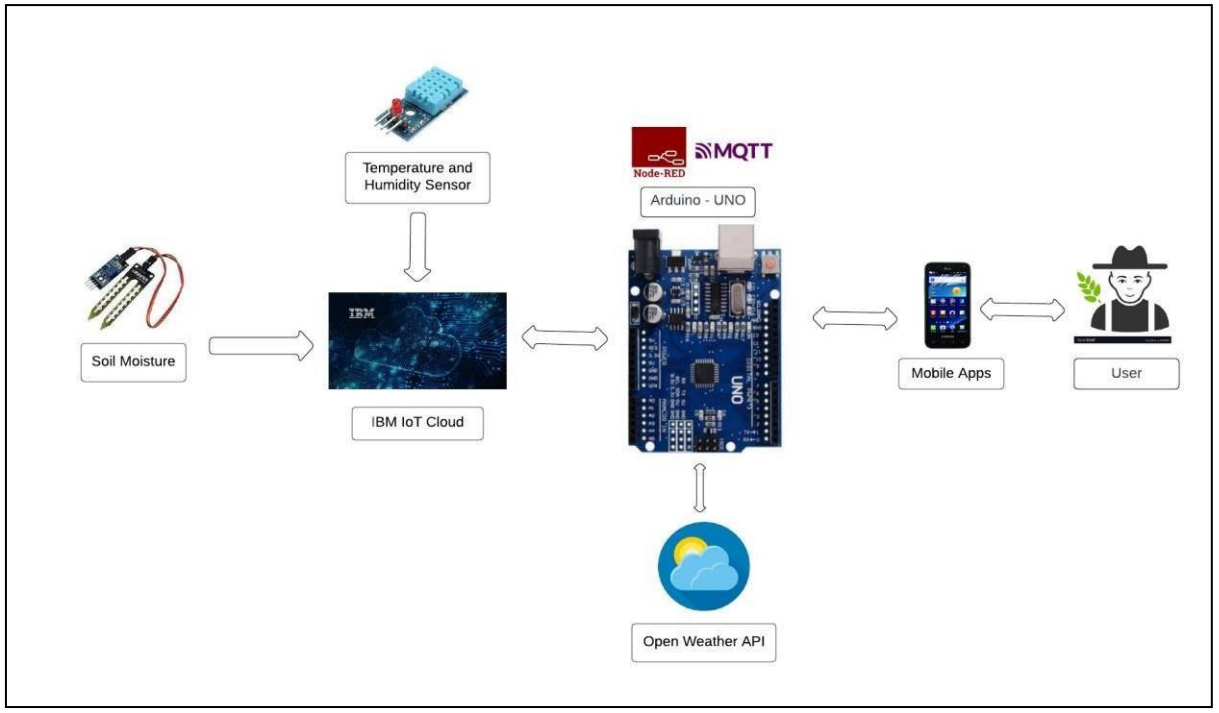
Project Design Phase - I

Solution Architecture

Date	14 October 2022
Team ID	PNT2022TMID24462
Project Name	Project – Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	4 Marks



- Various sensors are used to measure the different soil properties, such as temperature, humidity, and soil wetness. The data is then kept in the IBM cloud.
- The Arduino UNO processor is used to process input from sensors and weather data from the weather API.
- The Node-red programming tool is used to wire the hardware, software, and APIs. Use of the MQTT protocol is made for communication.
- The user has access to every piece of data gathered via a smartphone application made with MIT App Inventor. The user may use an app to decide whether or not to irrigate the crop based on the sensor results. They can use the app to remotely operate the motor switch.