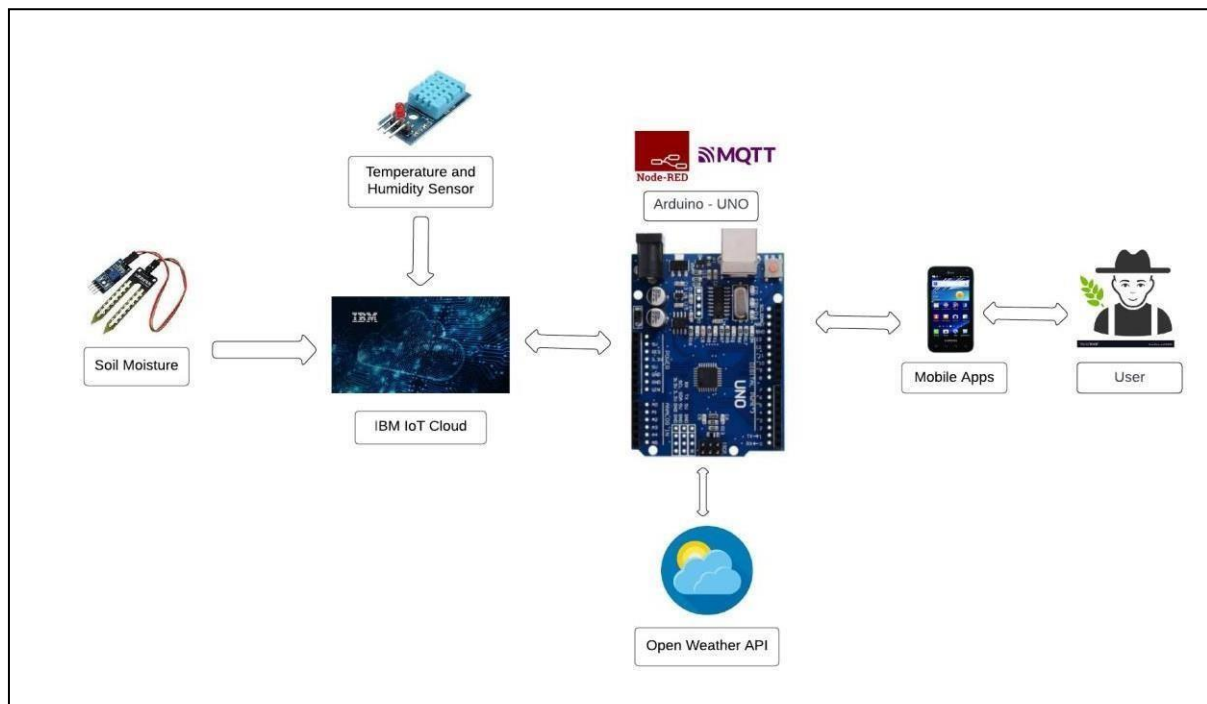


Project Design Phase – I

Solution Architecture

Date	23 October 2022
Team Members	Sri Rajeswari E , Mathibalan M , Thiruponpugazh P , Ruhi Angel A
Project Name	Smart Farmer - IoT Enabled Smart Farming Application
Maximum Marks	4 Marks



- ❖ Different sensors are used to measure the various soil characteristic (temperature, humidity, and soil moisture), and the results are saved in the IBM cloud.
- ❖ The data from sensors and weather data from weather API are processed using an Arduino UNO as a processing unit.
- ❖ Node-red is employed as a programming tool to connect the APIs, hardware, and software. It uses the MQTT protocol for communication.
- ❖ A mobile application that was created Utilizing the MIT app inventor gives the user all collected data. Depending on the sensor results, the user might decide via an app whether to irrigate the crop or not. They are able to remotely control the motor switch by Utilizing the app.