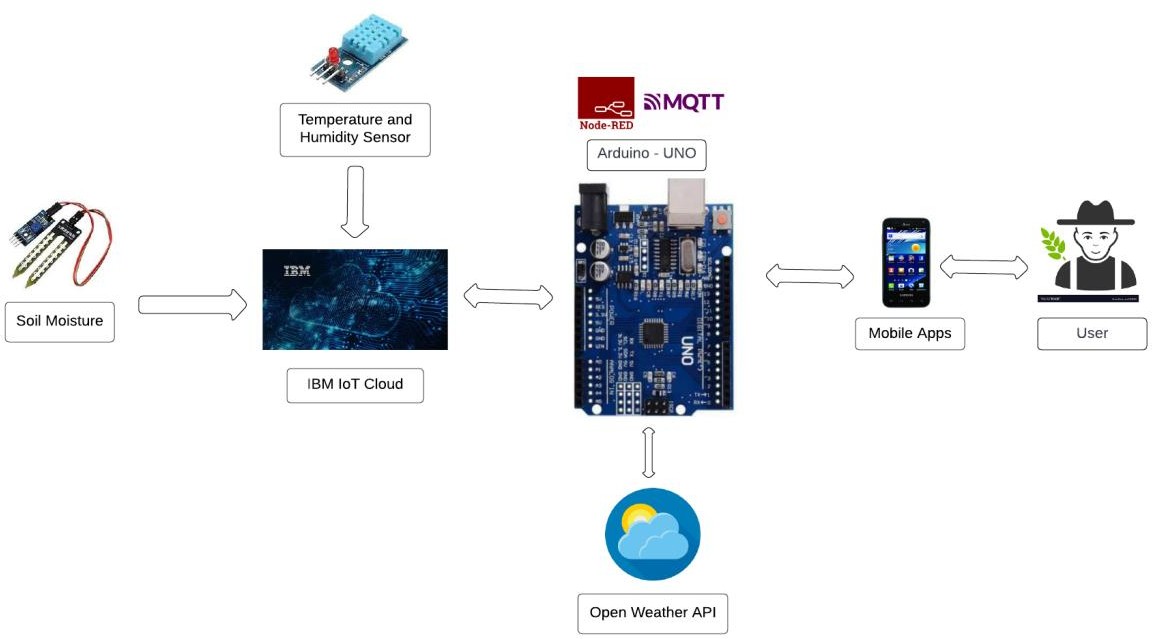
Project Design Phase - I Solution Architecture

|  |  |
| --- | --- |
| Date | 27 october 2022 |
| Team ID | PNT2022TMID31434 |
| Project Name | Project – Smart Farmer-IoT Enabled Smart  Farming Application |
| Maximum Marks | 4 Marks |



* The different soil parameters (temperature, humidity, Soil Moisture) are sensed using different sensors, and the obtained value is stored in the IBMcloud.
* Arduino UNO is used as a processing unit that processes the data obtained from sensors and weather data from weatherAPI.
* Node-red is used as a programming tool to wire the hardware, software, and APIs. The MQTT protocol is followed forcommunication.
* All the collected data are provided to the user through a mobile application that was developed using the MIT app inventor. The user could make a decision through an app, whether to water the crop or not depending upon the sensor values. By using the app they can remotely operate the motorswitch.