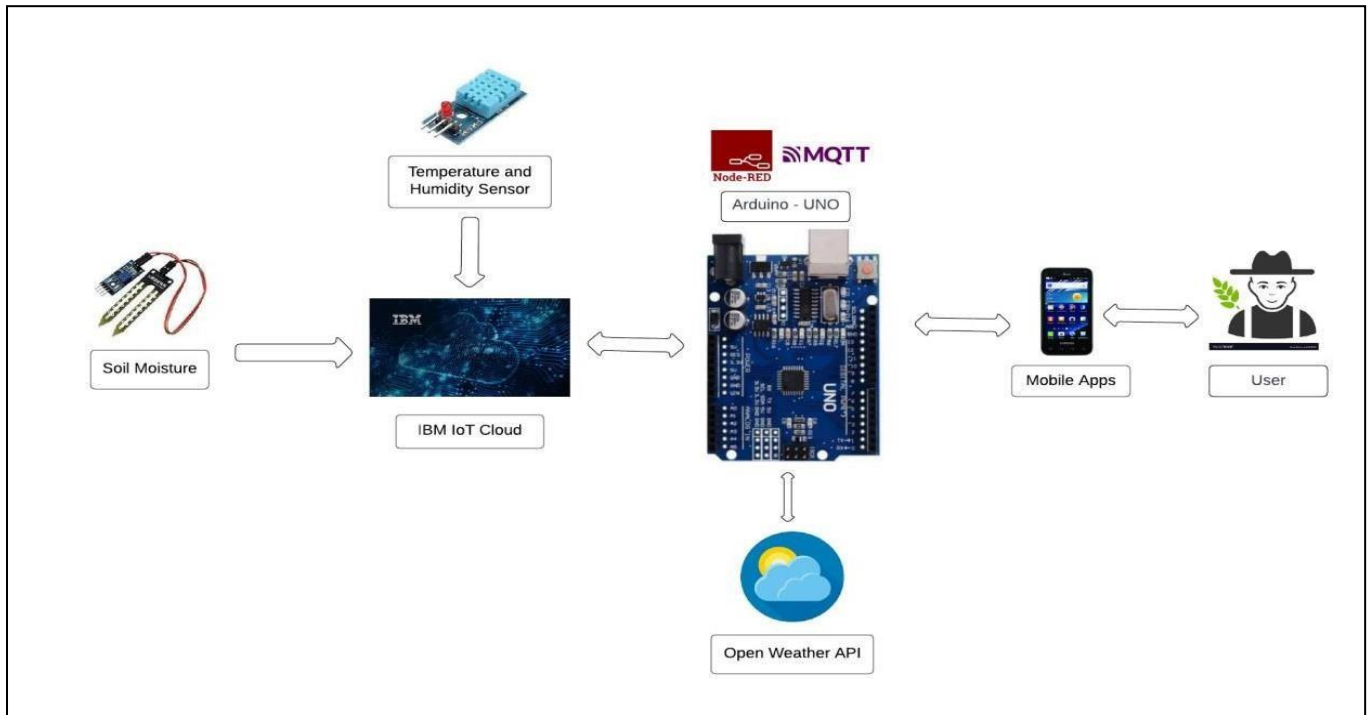


## Project Design Phase - I

### Solution Architecture

|              |   |
|--------------|---|
| Date         | 11 October 2022                                   |
| Team ID      | PNT2022TMID36144                                  |
| Project Name | SmartFarmer-IoT Enabled Smart Farming Application |



The different soil parameters (temperature, humidity, Soil Moisture) are sensed using different sensors, and the obtained value is stored in the IBM cloud.

Arduino UNO is used as a processing unit that processes the data obtained from sensors and weather data from weather API.

Node-red is used as a programming tool to wire the hardware, software, and APIs.

The MQTT protocol is followed for communication.