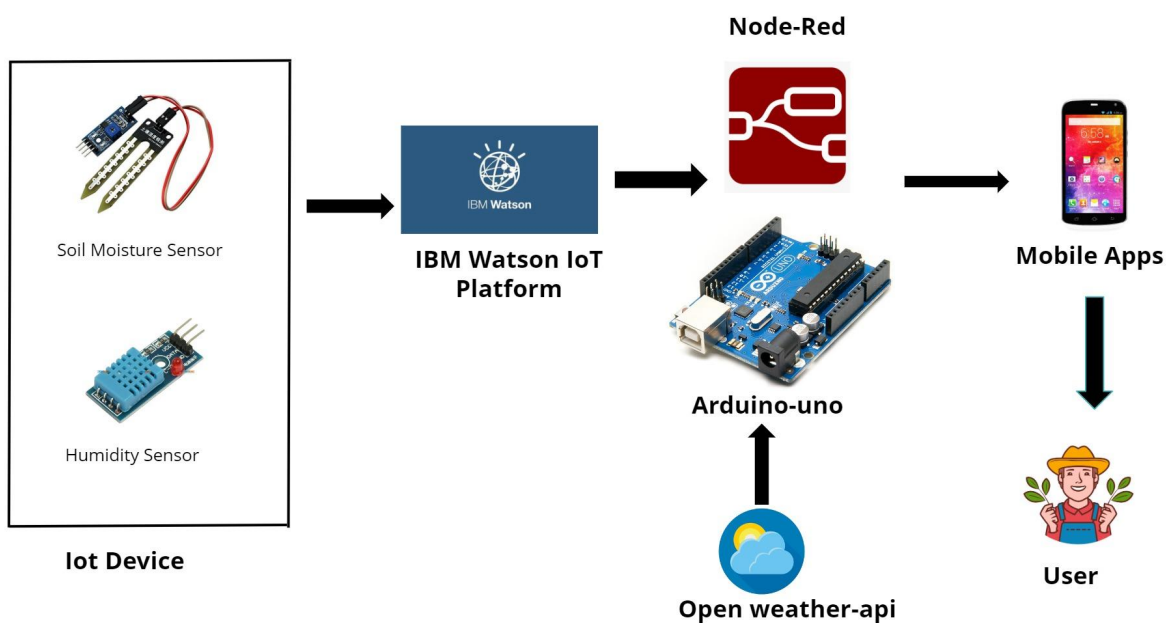


Project Design Phase - I Solution Architecture

Date	27-10-2022
Team ID	PNT2022TMID10305
Project Name	Project – Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

Solution Architecture:



1. Different types of soil characteristics including temperature, humidity, and soil moisture, are measured using various sensors, and the results are saved in the IBM cloud.
2. The processing unit, Arduino UNO, is used to process weather data from weather API as well as input from sensors.
3. The hardware, software, and APIs are wired using Node-red as a programming tool.
4. Through a smartphone application created with the help of MIT App Inventor, the user is given access to all the collected data. Depending on the sensor results, the user may decide whether to irrigate the crop or not using an app. They can control the motor switch from a distance using the app.