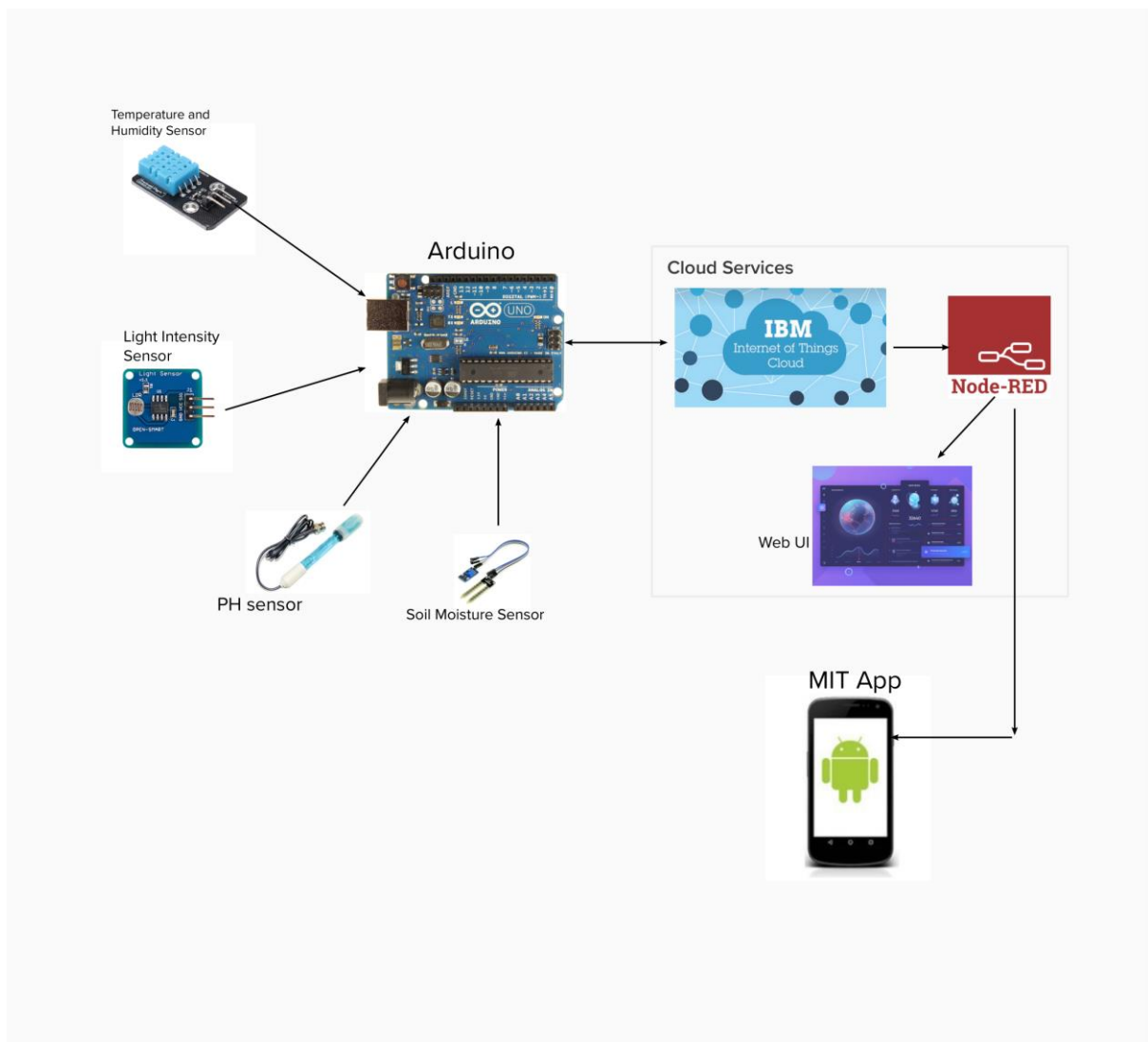


Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID07443
Project Name	Smart Farming - IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

Solution Architecture Diagram:



- The parameters like temperature, humidity, and soil moisture are updated to the Watson IoT platform.
- Temperature of the weather is obtained using Temperature and Humidity Sensor.
- Soil Moisture using PH sensor and Soil Moisture Sensor.

- The device will subscribe to the commands from the mobile application and control the motors accordingly
- APIs are developed using Node-RED service for communicating with Mobile Application
- Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways. It provides a browser-based editor.
- The MQTT protocol is followed for communication.
- A mobile application is developed using the MIT App inventor to monitor the sensor parameters and control the motors.