Project Design Phase-I
Solution Architecture

Date	8-october-2022
Team ID	PNT2022TMID40121
Project Name	Smart Farming-IoT Enable Smart Farming Application.
Maximum Marks	4 Marks

Solution Architecture:
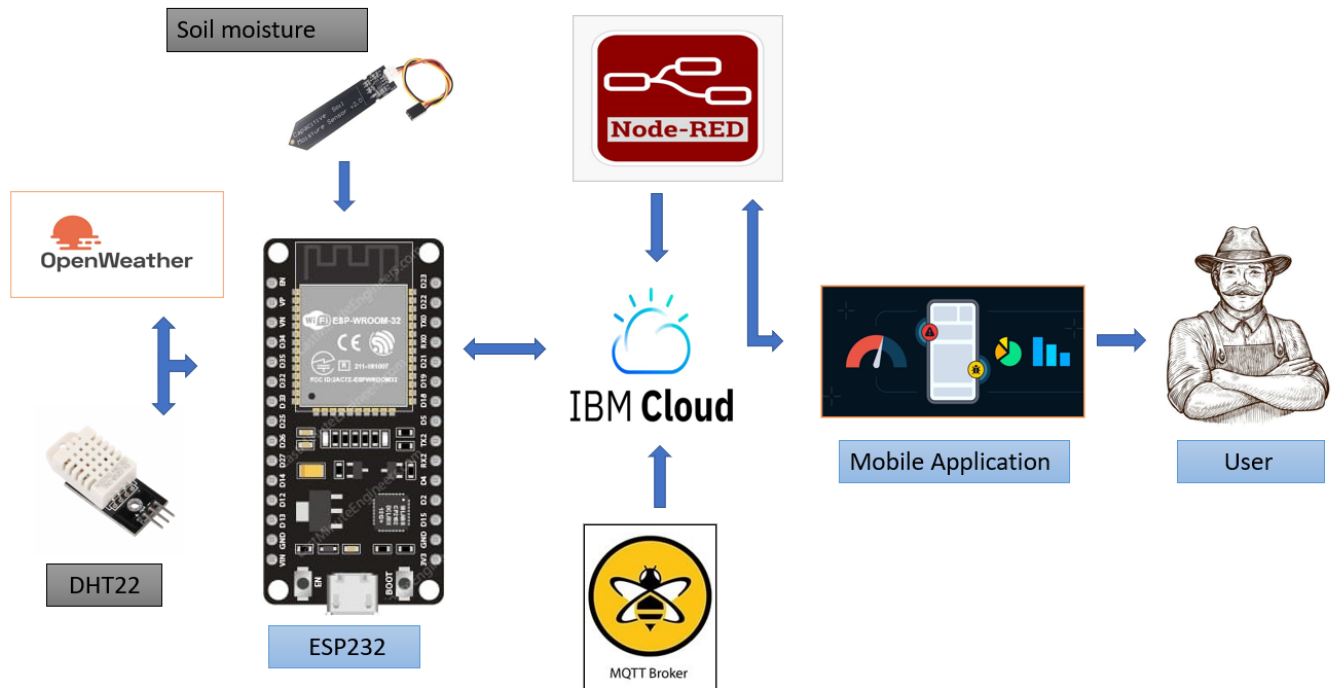
- The different sensors (temperature, humidity, soil moisture) are sensed through the ESP232 processor kit and the weather API.
- ESP232 is used as a processing unit that processes the data obtained from sensors and weather data from weather API.
- Node-red is used for programming, as the tool to wire the hardware, software and APIs. The MQTT protocol is followed as a mediator.
- The overall data given by ESP232, open weather, node-red are stored in the IBM cloud.
- The data which was collected are provided to the user through a mobile application that was developed using the MIT app invertor.
- The water irrigation to plants is automatically done in the right period of time by the instructions which was already programmed.