# Solution Architecture

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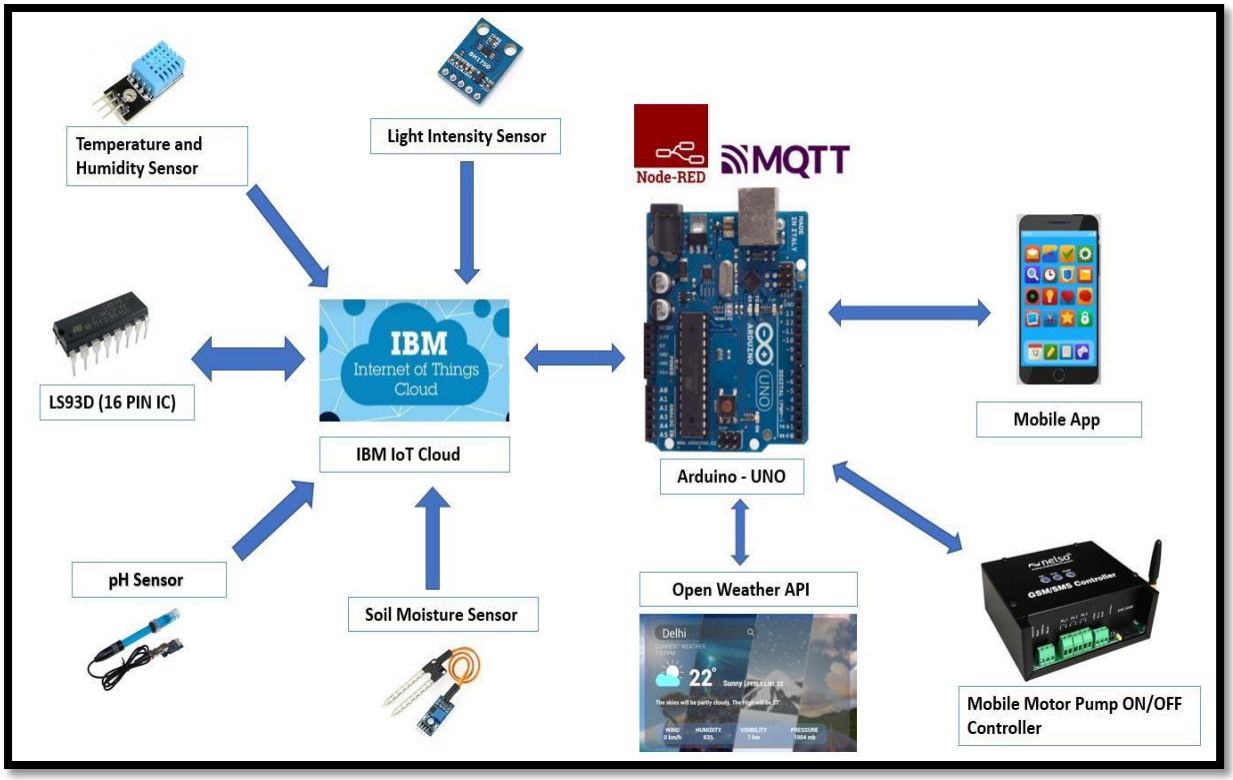
| Date | 07 November 2022 |
| Team ID | PNT2022TMID49053 |
| Project Name | IoT based smart crop protection system foe agriculture |
| Maximum Marks | 4 Marks |




## Key points:

- The different soil parameters (temperature, humidity, light intensity, pH level) are sensed using different sensors and the obtained value is stored in IBM cloud.
- Arduino uno is used as a processing unit which 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.
- All the collected data are provided to the user through a mobile application which was developed. Depending upon the sensor values, Mobile Motor Pump controller waters the crop.