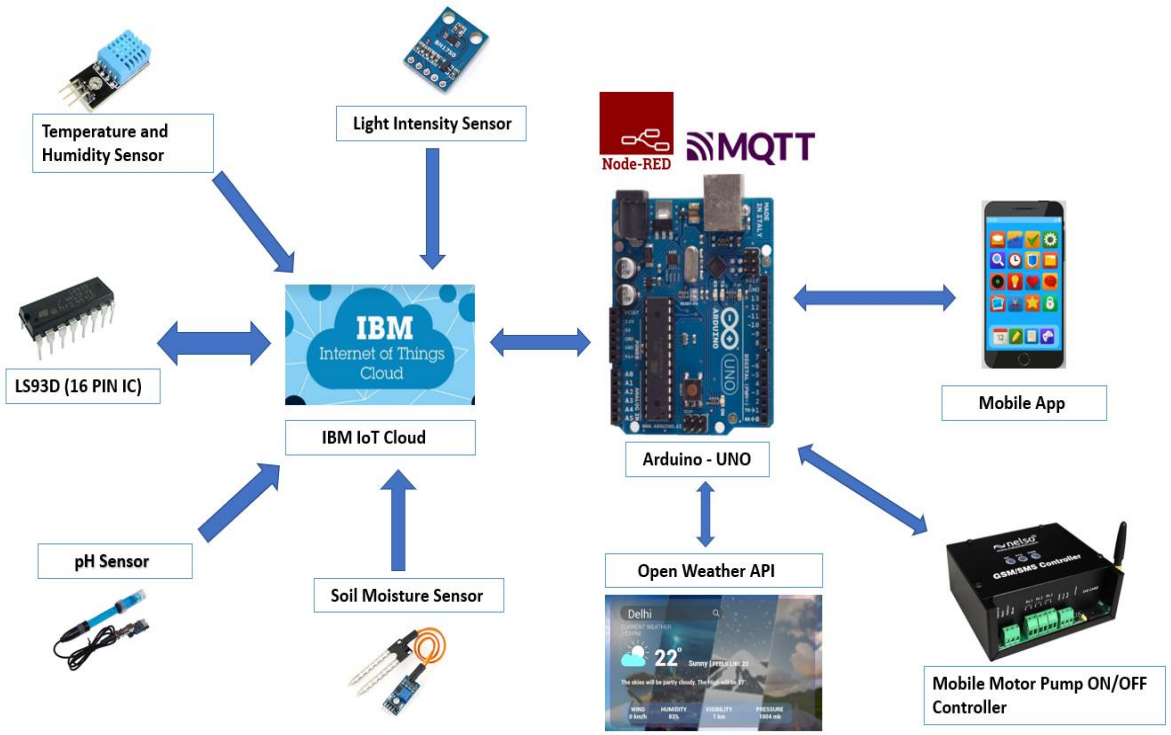
Solution Architecture:

Date	30 September 2022
Team ID	**PNT2022TMID30647**
Project Name	IoT based smart crop protection system foe agriculture
Maximum Marks	4 Marks

TEAM LEAD: S.MONIKA

TEAM MEMBERS: T.CHARU VIKASHINI ,N.AKSHAYA, R.SOORYA PRIYA



KEY POINTS:

- **Different sensors are used to measure the various soil factors (temperature, humidity, light intensity, pH level), and the data is then saved in the IBM cloud.**

- **An Arduino Uno is utilised as a processing unit to process weather data from a weather API as well as data from sensors.**

- **The hardware, software, and APIs are wired using Node Red, a programming tool. It uses the MQTT protocol for communication..**

- **A mobile application that was created gives the user access to all the collected data. The crop is watered by a mobile motor pump controller based on the sensor results.**