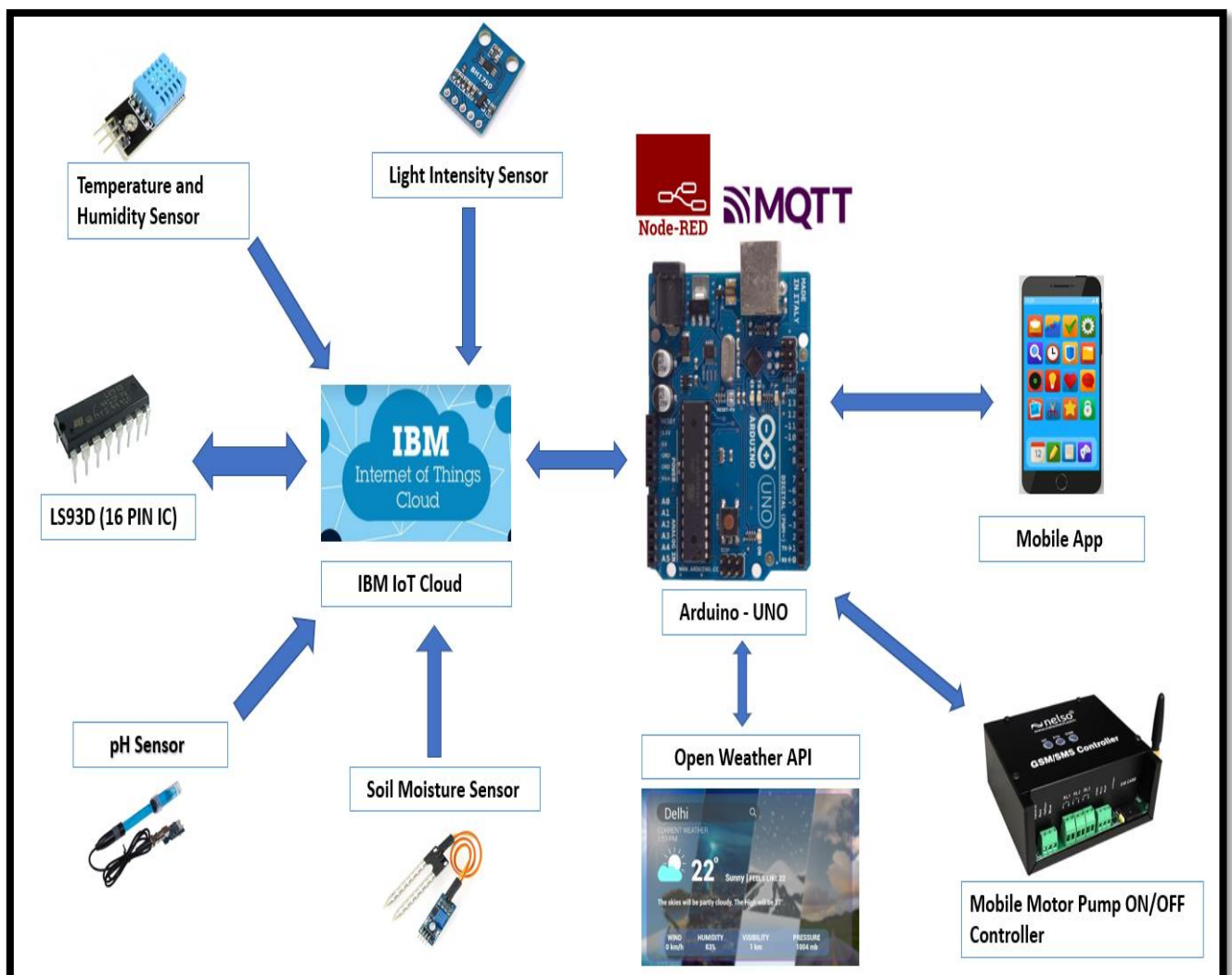# Project Design Phase – I
Solution Architecture

Date	30 September 2022
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Project Name	IoT Based Smart Crop Protection System For Agricultrue

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.