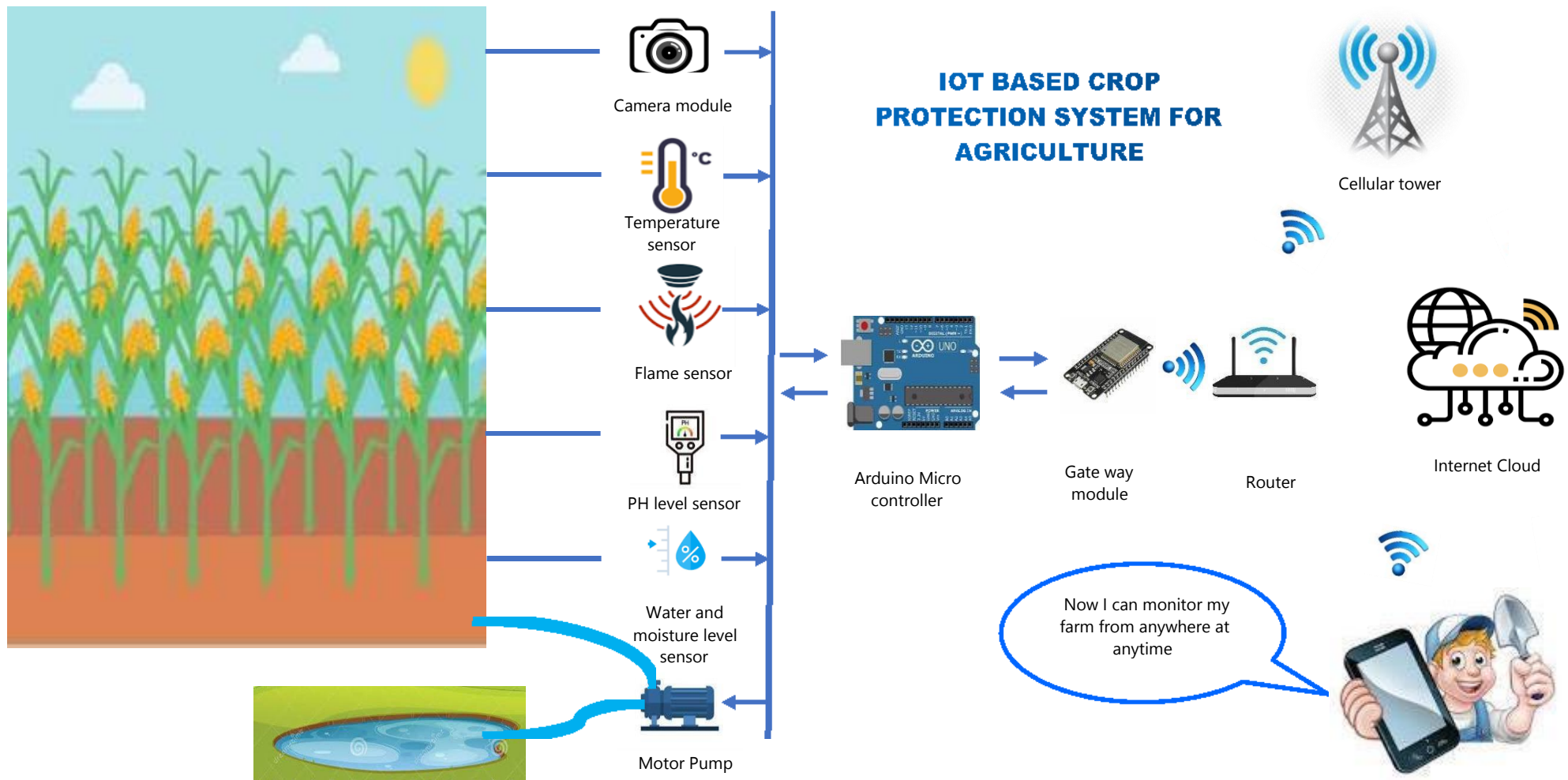


Project Design Phase-1 Solution Architecture

Date:	21 October 2022
Team ID:	PNT2022TMID40841
Project Name:	IOT BASED CROP PROTECTION SYSTEM FOR AGRICULTURE



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.