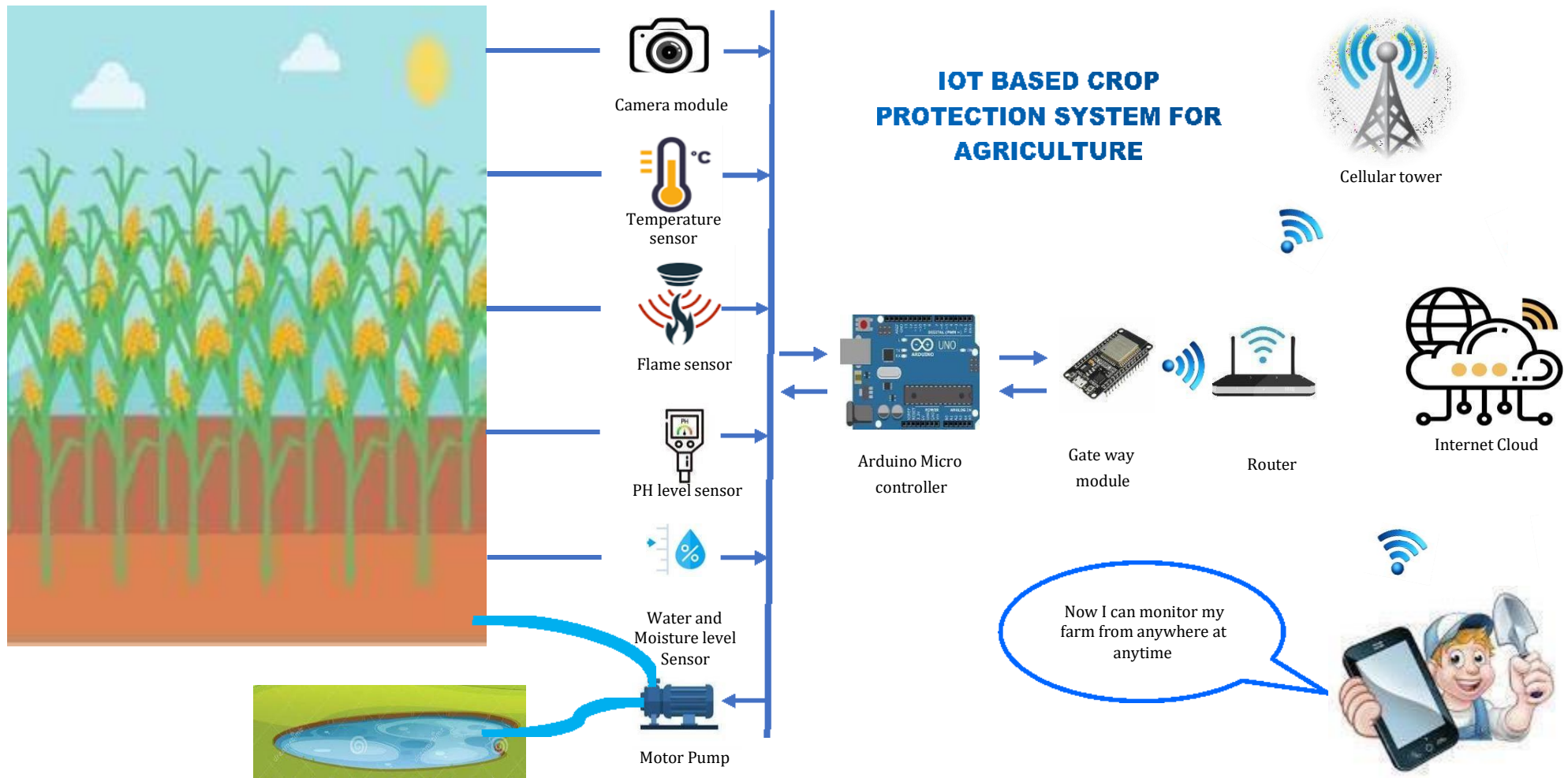


## Project Design Phase-1 Solution Architecture

<b>Date:</b>	16 October 2022
<b>Team ID:</b>	PNT2022TMID30928
<b>Project Name:</b>	IOT BASED CROP PROTECTION SYSTEM FOR AGRICULTURE



## Key Points:

- The different parameters for farming such as temperature, humidity, pH level, light intensity are sensed using different sensors and the obtained results are given in the form of graph and the values are stored in the cloud.
- Arduino UNO is used as the processing unit which processes the data obtained from the sensors and send them to the internet and the data's are saved and they are sent to the farmers for verification.
- Node RED is used as the programming tool to wire the hardware, software and APIs. The MQTT protocol is used for communication.
- All the collected data's are sent to the user through internet to their smart phones through the mobile application that was built specifically for this purpose. This application will be linked to their field 24/7 and the data's will be updated frequently.