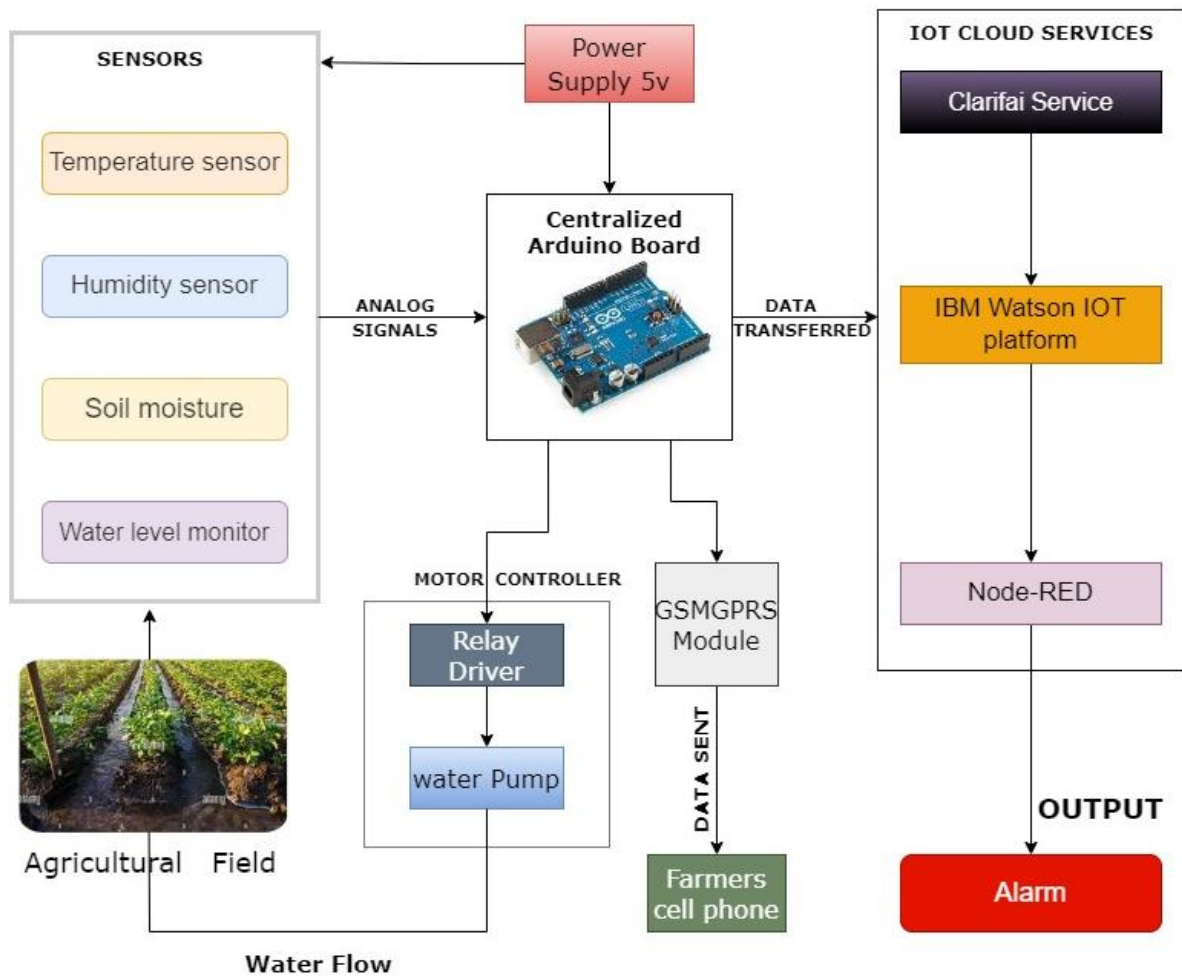


Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID04713
Project Name	IoT Based Smart Crop Protection System for Agriculture
Maximum Marks	4 Marks



Architecture Diagram for Smart Crop Protection System

DESCRIPTION:

- The device will detect the animals and birds using the Clarifai service and if any animal or bird is detected the image will be captured or notification will be sent to cloud and it stored in the IBM cloud object storage.
- It also generates an alarm and avoid animals from destroying the crop.
- The image URL will be stored in the IBM Cloud ant DB service.
- The device will also monitor the soil moisture levels, temperature, and humidity values and send them to the IBM IoT Platform.
- The image will be retrieved from Object storage and displayed in the web application.
- A web application is developed to visualize the soil moisture, temperature, and humidity values.
- Users can also control the motors through web applications.