

PROJECT DESIGN PHASE-1

SOLUTION ARCHITECTURE

TEAM ID: PNT2022TMID36188

Date	12 october 2022
Team ID	PNT2022TMID36188
Project Name	IOT based Smart Crop Protection For Agriculture
Maximum Marks	2 Marks

DESCRIPTION:

- ❖ The device will detect the animals and birds using the Clarifai service.
- ❖ If any animal or bird is detected the image will be captured and stored in the IBM Cloud object storage.
- ❖ It also generates an alarm and avoid animals from destroying the crop.
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- ❖ The image URL will be stored in the IBM Cloudant 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

