

PROJECT DESIGN PHASE-I

SOLUTION ARCHITECTURE

Team ID	PNT2022TMID31686
Project Name	IOT BASED SMART CROP PROTECTION SYSTEMFOR AGRICULTURE.

ARCHITECTURE EXPLANATION:

- The device will detect the animals and birds using the Iot 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.

ARCHITECTURE DIAGRAM:

