PROJECT DESIGN PHASE-I SOLUTION ARCHITECTURE

Team ID	PNT2022TMID44430
Project Name	IOT BASED SMART CROP PROTECTION SYSTEMFOR AGRICULTURE .

ARCHITECTURE EXPLAINATION:

➢ 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: