

PLANT REKOGNITION

DTS PERSONAL PROJECT

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Support Associate Intern



PROJECT OBJECTIVES

- Build a project using AWS services
- Utilise DTS services
- Integrate cross profile services



CONCEPTS

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ORIGINAL CONCEPT

- Web application to analyze face for various skin problems, and return products to target them.
- Use Rekognition Custom Labels to detect various skin problems, e.g. dry skin, oily skin, blackheads etc.



FINAL CONCEPT

- Web application to analyze plant type in image, and return care tips.
- Use Rekognition Custom Labels to train model to detect various plant types.



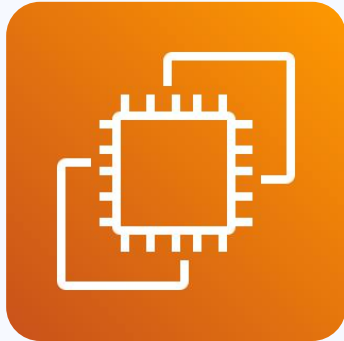
SERVICES

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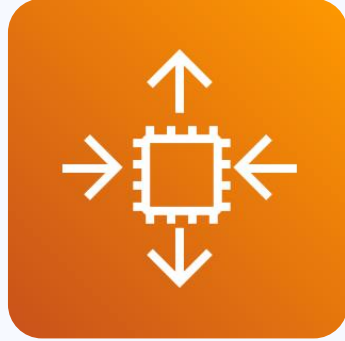


COMPUTE SERVICES

Providing a highly available, scalable web server and to deploy code using event triggers on a serverless platform.



EC2



Amazon EC2
Autoscaling



Elastic Load
Balancer



AWS Lambda



NETWORKING & CONTENT DELIVERY SERVICES

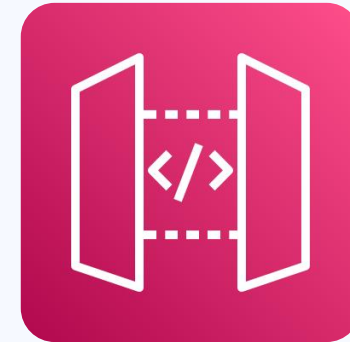
Quickly and reliably delivering the web page and it's resources to the end user



Amazon
Route 53



Amazon
CloudFront



API Gateway



DATABASE SERVICES



DynamoDB

Securely stores data in NoSQL database

SECURITY, IDENTITY AND COMPLIANCE SERVICES



AWS IAM

Provides required access controls for various services

MANAGEMENT & GOVERNANCE SERVICES



Cloudwatch

Monitors Lambda code when it runs



STORAGE SERVICES

Securely storing web pages,
user uploads and the training
dataset



S3

MACHINE LEARNING SERVICES

Trained to analyse images of
plants and return data it
determines



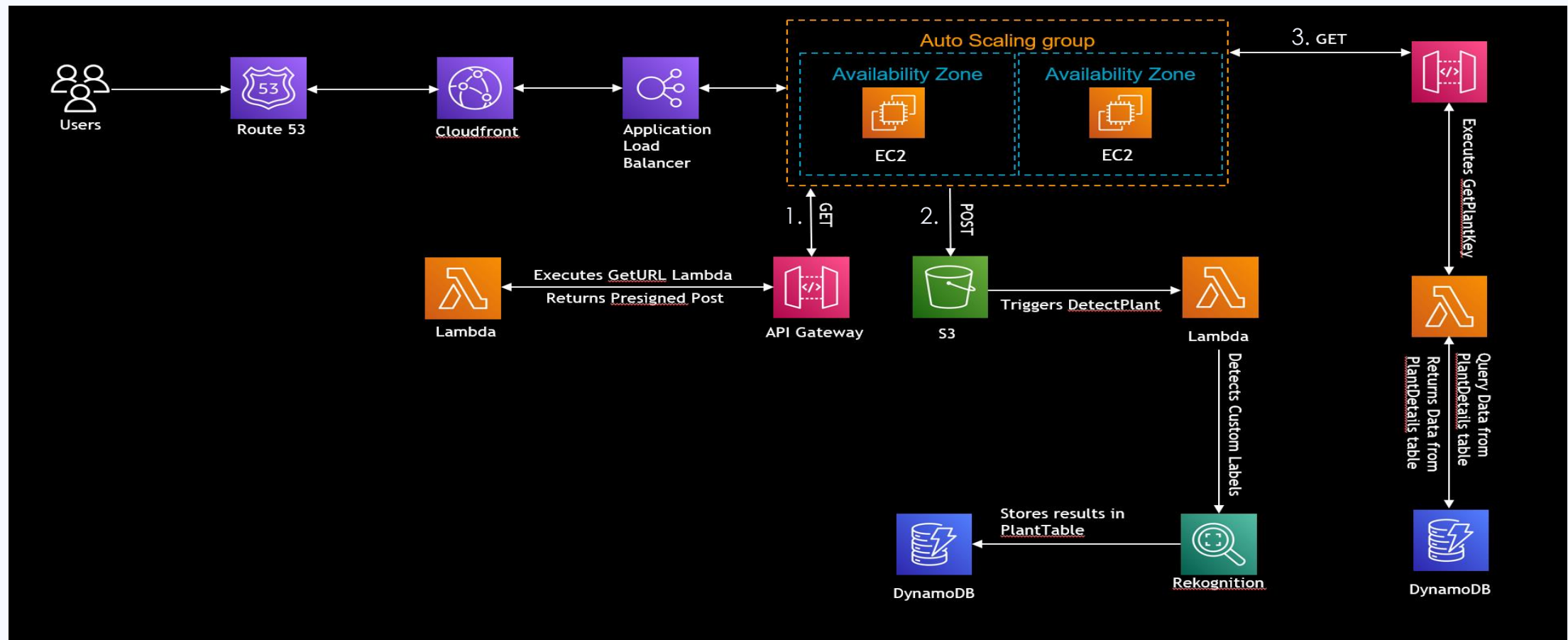
Rekognition



ARCHITECTURE

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ARCHITECTURE



DEMO

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Any Questions?



THANK YOU!

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