Assignment - Ashish Rase

Problem Statement:

Separate Document in Pdf format named "2021_WW_AWS-Coding_Test_v3.pdf"

Assignment: "Distance calculator in AWS"

Solution Code is uploaded to GIT: https://github.com/ashishrase/assignment.git

Programming language: Python

Cloud: AWS lambda, serverless, and API Gateway

Tools uses: Visual studio code, MS cmd

Environment Steup: Fresh Environment setup was buildup on a blank Laptop, with no Preinstalled tools

Time Analysis:

Environment setup time: 3 hours

Coding time: 1 hour

Documentation time: 30 min.

The Webservice is hosted on the AWS cloud and below is the live URL which can be triggered:

The service can be consumed over below url and are unauthorized for basic authetication, so no need for any IAM Role

Dev

https://7m9rcs0lx9.execute-api.us-east-1.amazonaws.com/dev/result?distanceX=33&distanceY=33&units=meters

Test:

https://7m9rcs0lx9.execute-api.us-east-1.amazonaws.com/Test/result?distanceX=33&distanceY=33&units=meters

Prod:

https://7m9rcs0lx9.execute-api.us-east-

1.amazonaws.com/Production/result?distanceX=33&distanceY=33&units=meters

Below is the last deployment log

Command Prompt

```
D:\assignment\woodwing-Assignment>serverless deploy --aws-profile=underdog --force
Serverless: Packaging service...
Serverless: Excluding development dependencies...
Serverless: Uploading CloudFormation file to S3...
Serverless: Uploading artifacts...
Serverless: Uploading service servrless-distance-calculator.zip file to S3 (458 B)...
Serverless: Validating template...
Serverless: Updating Stack...
Serverless: Checking Stack update progress...
Serverless: Stack update finished...
 ervice Information
 ervice: servrless-distance-calculator
 tage: dev
 egion: us-east-1
 tack: servrless-distance-calculator-dev
 esources: 12
 pi keys:
 None
 ndpoints:
 GET - https://7m9rcs0lx9.execute-api.us-east-1.amazonaws.com/dev/result
  distanceAddition: servrless-distance-calculator-dev-distanceAddition
 ayers:
  None
D:\assignment\woodwing-Assignment>dir
```

← → C â 7m9rcs0lx9.execute-api.us-east-1.amazonaws.com/dev/result?distanceX=3&distanceY=4&units=meters

> If triggered with proper parameters we will get below result

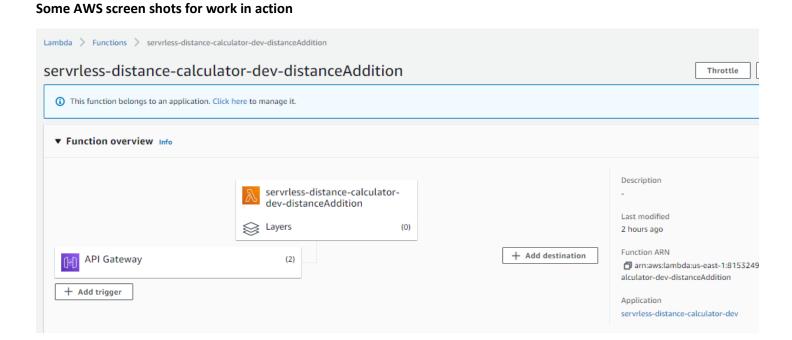


Below are the GET and POST request

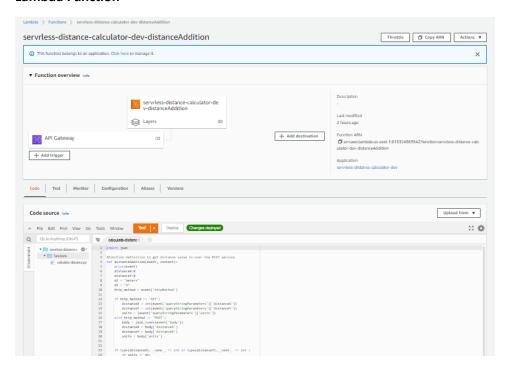
GET Request

```
{
  "resource": "/ distanceAddition",
  "path": "/ distanceAddition ",
  "httpMethod": "GET",
  "queryStringParameters": {
    "distanceX": 10,
    "distanceY": 20,
    "units": "meters"
  }
}
```


I can add canary for putting multiple stages



Lambda Function



API Gateway

