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Individual report for Portfolio consideration

Main individual contributions to the project1:

1. Implemented lambda function code that does the following:

1) face_recognition_1:

- Function takes in the encoding data of known faces, and image path of new face.
- It compares the known encoding to the unknown encoding and returns the name of the person to whose the encodings match

2) get_images:

- It uses ffmpeg to break the video into images, and returns path to the first image frame. Takes in video file path as parameter.

3) dynamodb_util:

- Created a dictionary that maps name to partition id which is "id".
- Based on this id we query dynamodb to return attributes "major" and "year" for the given id.
- Results string major,year is returned from the function.

Key Learnings:

- Using boto3 library for handling dynamodb via python, and how to query nosql database dynamo db.
- Solving bugs using cloudwatch logs , from lambda's monitor tab.

2. Also, worked on end to end testing and creating the report.

3. Also, explored how to trigger docker formation and upload to ECR using github actions, though couldn't implement this as it did not work.

References:

[1]<https://chloemcateer.medium.com/containerised-lambdas-terraform-github-actions-4b420d49e12c>

[2]<https://realpython.com/python-boto3-aws-s3>

[3]<https://pypi.org/project/face-recognition/>