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Image Ingest Pipeline

This Azure Functions project is a pipeline for reading images from a blob storage container, resizing them, and processing them through the Azure Face API to determine unique faces, and attempt to identify 'celebrity' faces.

Prerequisites

- 1. Azure Storage Account
 - You must create four containers in the storage account: ex: images , resized , results , upload .
- 2. Azure Al Services Account (Face API)
 - You must submit a <u>request</u> to enable usage of the full Face API including face similarity and celebrity recognition.
- 3. Azure Open Al
 - You must have an Azure OpenAl account and a GPT-4 Turbo or GPT4o deployment.

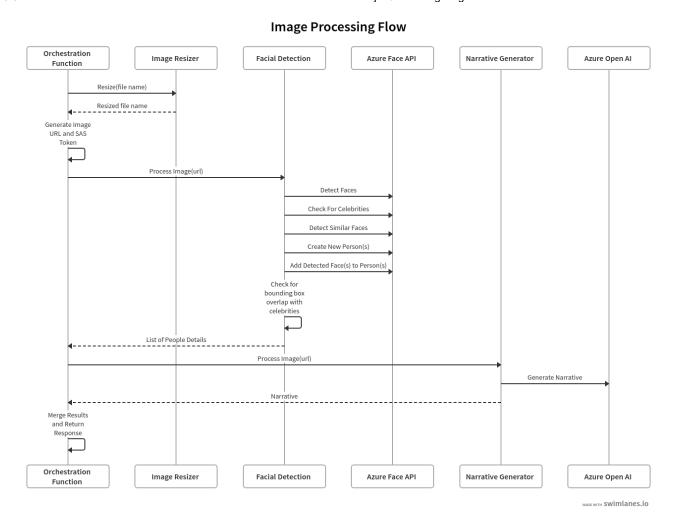
Getting Started

- 1. This repo is setup using devcontainers. You must have docker installed or run it as a Codespace in Github. If you plan to run it locally, after the project opens, make sure to select 'Yes' when prompted to reopen in container. This will ensure the correct environment is setup for the project, including the Azure Functions runtime environment.
- 2. Copy the local.settings.json.example file to local.settings.json make updates.
 - AZURE_AI_SERVICE_ENDPOINT is the endpoint for the Azure Al Service. For example: https://<appname>.cognitiveservices.azure.com/
 - AZURE_AI_SERVICE_KEY is the key for the Azure Al Service.
 - AZURE_STORAGE_CONNECTION is the connection string for the Azure Storage Account.

- ORIGINAL_IMAGE_CONTAINER is the name of the container where the original images are stored. For example: images
- RESIZED_IMAGE_CONTAINER is the name of the container where the resized images are stored. For example: resized
- UPLOAD_IMAGE_CONTAINER is the name of the container where the blob trigger function listens. For example: upload
- ORCHESTRATOR_RESULT_CONTAINER is optional. The name of the container where the face results are stored. For example: results If not set, then the json output of the function will not be stored.
- ORCHESTRATOR_RESULT_CONNECTION is optional. If you want to store the results in a separate storage account, then set this value to the connection string of the storage account. If ORCHESTRATOR_RESULT_CONTAINER is set and this value is not, then the AZURE_STORAGE_CONNECTION will be used.
- AZURE_OPEN_AI_ENDPOINT is the endpoint for the Azure OpenAl Service. For example: https://<your openai
 name>.openai.azure.com/openai/deployments/<your gpt4 turbo/4o
 deployment>/chat/completions?api-version=2024-05-01-preview
- AZURE_OPEN_AI_KEY is the key for the Azure OpenAl Service.
- 3. You can run the project locally by clicking the debug button in VSCode and selecting 'Attach to Python Functions'.

Architecture Overview

This project contains a single Azure Function endpoint that orchestrates several capabilities.



ImageScaler

Takes the name of an image file in the images container, resizes it, and uploads it to the resized container.

FaceRecognizer

Releases

No releases published

Packages

No packages published

Languages

Python 99.8% Dockerfile 0.2%