

This document details the setup for the automation of the image animation in the Google Cloud Function

1. Git branch

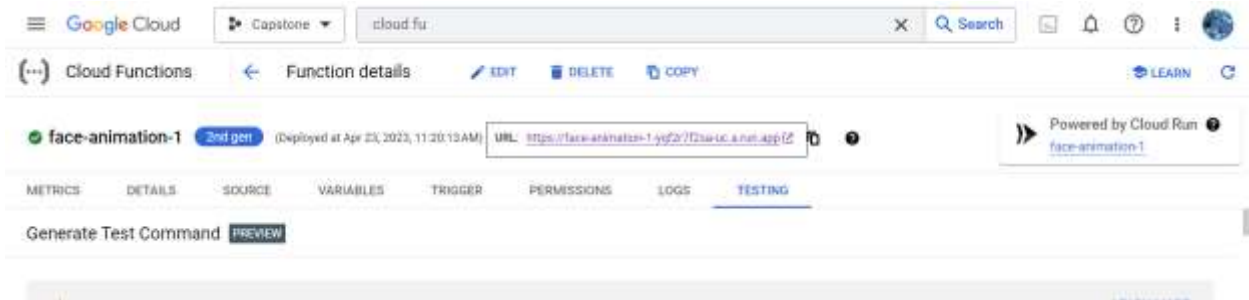
The branch for image animation is the “imageAnimationFinal” branch. In the ios-app/api/app.py the following lines need to be changed:

```
from joblib import Parallel, delayed
import requests
from google.cloud import storage
def sunall(audio):
    json_data = {
        'text': 'Hello, World!',
        'audio': audio,
        'image': 'photo.png',
        # replace name with the name of the patient
        1 'name': "BananaMonster",
        # replace patientId with ID of patient
        2 'patientId': "1",
        # replace fpId with ID of fp
        3 'fpId': "11"
    }
    headers = {
        'Content-Type': 'application/json',
        # Replace bearer with gcp cloud token from shell
        4 'Authorization': 'Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpzZW50b3RhdGEiLCJ1aWQiOiJFQyJpc3MlOiJ3V2ZuZm5kcy5nb29udS5VZ29'
    }
    # replace url below with url of the cloud function url
    response = requests.post(5 'https://face-animation-2-yqf2r7f2sa-us-a.run.app', headers=headers, json=json_data, timeout=6000)
    return response
# 6 replace audio1 with the audio files stored in gcp cloud
audio1 = ["How are you doing today?", "Today is", "Where do you live?", "Do you remember the time when you lost your first tooth?", "It is", "It is the year twenty twenty-three"]
Parallel(n_jobs=30, verbose=10)(delayed(sunall)(i) for i in audio1)
```

1. The “name” field needs to be replaced with the name of the patient
2. The “patientId” field needs to be replaced with the ID of the corresponding patient
3. The “fpId” field needs to be replaced with the ID of the familiar person
4. The “Authorization” needs to be filled in with the bearer code when the following command is ran in the GCP shell, as shown below:

The screenshot shows the Google Cloud console interface. At the top, there's a search bar and navigation tabs. The main section displays the details for the 'face-animation-1' function, which is a 2nd generation function deployed on April 23, 2023, at 11:20:13 AM. The URL is 'https://face-animation-1-yqf2r7f2sa-us-a.run.app'. Below this, there are tabs for METRICS, DETAILS, SOURCE, VARIABLES, TRIGGER, PERMISSIONS, LOGS, and TESTING. The TESTING tab is selected, showing a 'Generate Test Command' button. At the bottom, a terminal window is open, showing the command 'gcloud auth print-identity-token' and its output, which is a long bearer token.

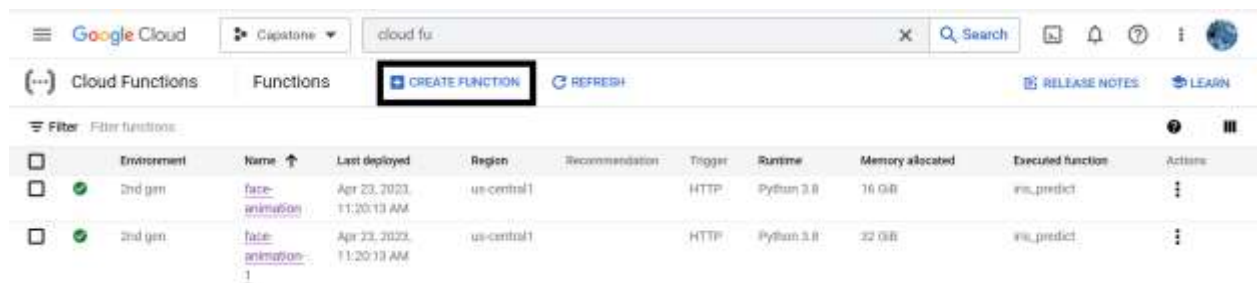
5. Replace the URL field with the URL from the cloud function as seen below:



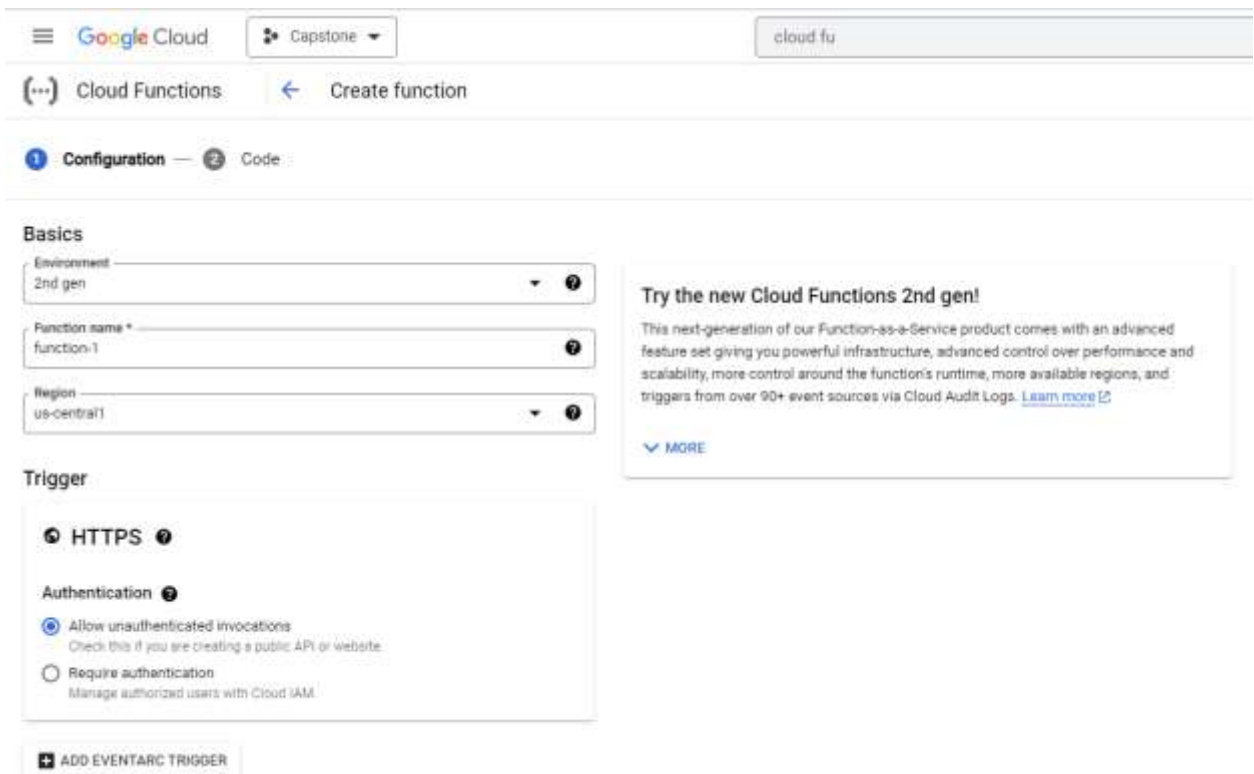
6. In the audio array, store the name of the audio files that you want to animate the familiar person to say.

2. Setting up the Google Cloud Function

1. Create a cloud function:



2. Use the following configuration values:



Runtime, build, connections and security settings ^

< **RUNTIME** BUILD CONNECTIONS SECURITY AND >

Memory allocated *
 32 GiB preview

CPU (preview) *
 8 **PREVIEW**

Timeout *
 3600 seconds ?

Concurrency **PREVIEW**

Maximum concurrent requests per instance
 100 ?

Autoscaling ?

Minimum number of instances
 0

Maximum number of instances *
 62

Runtime service account ?

Service account
 Default compute service account

By default Cloud Functions uses the automatically created Default Compute Engine Service Account. [Learn more about service accounts.](#)

Runtime environment variables ?

+ ADD VARIABLE

- Copy in the code from main.py and requirements.txt from ImageAnimation/ directory in this repo into the main.py and requirements.txt file in the cloud function:

```

1 import sys; sys.path.append('lib')
2 import os
3 import sys
4 import sys
5 from google.cloud import storage
6 from google.cloud import storage
7 from google.cloud import storage
8 from google.cloud import storage
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```

- Deploy the cloud function and test the image animation by creating a new profile through the frontend.

