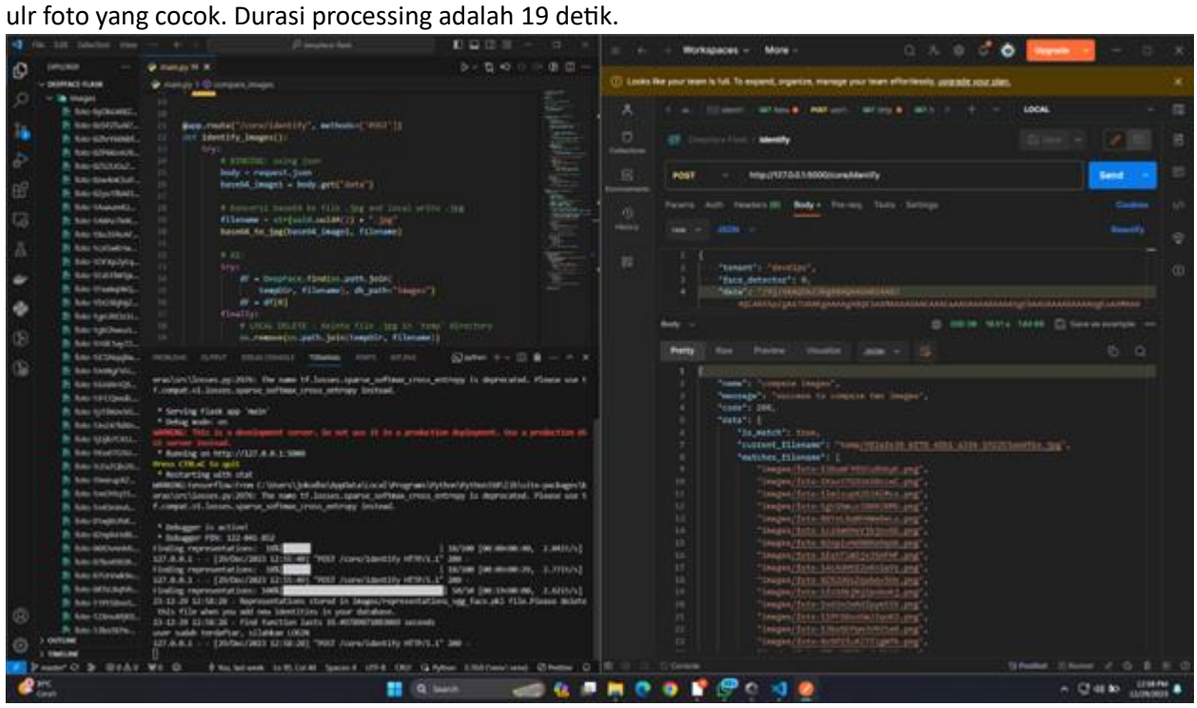
HASIL STRESS TEST ENGINE FR BARU – MENGGUNAKAN LIBRARY OPEN SOURCE DEEPFACE

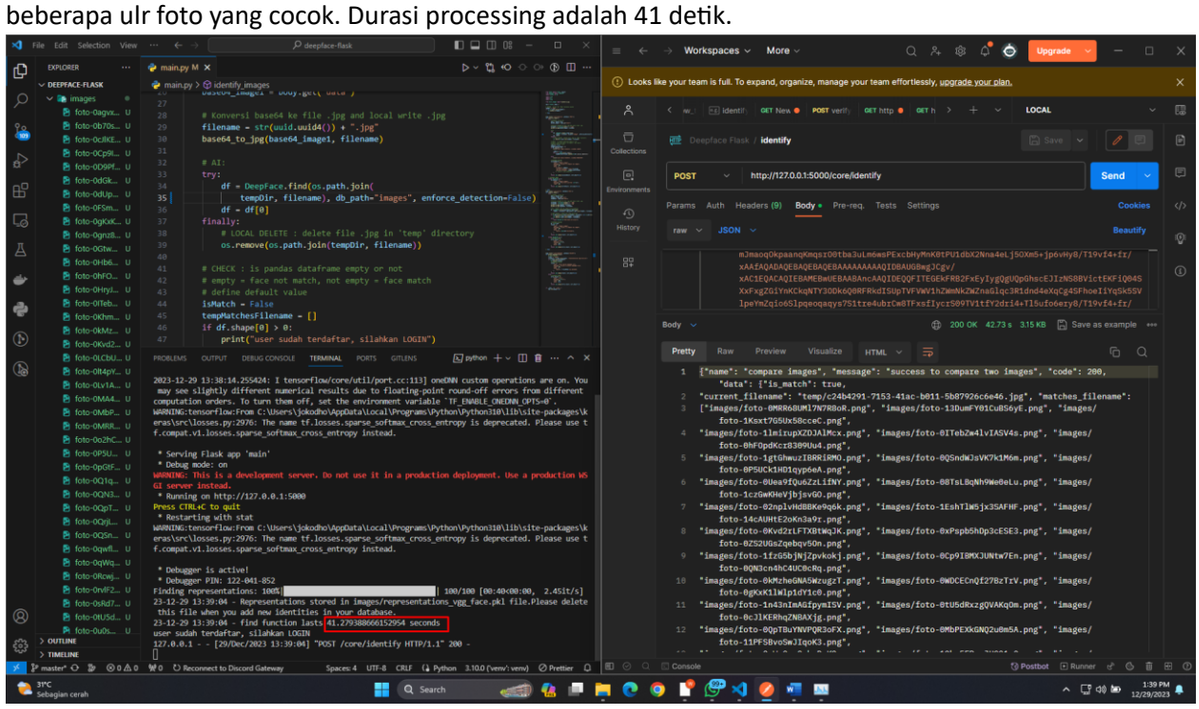
Skenario 1 : tanpa embedded file

- Embedded file berfungsi mempercepat waktu processing dengan memanfaatkan processing yang telah dilakukan sebelumnya
- Embedded file harus di hapus agar kemudian digenerate ulang untuk dapat mendeteksi perubahan gambar (penambahan wajah baru atau penghapusan wajah lama)

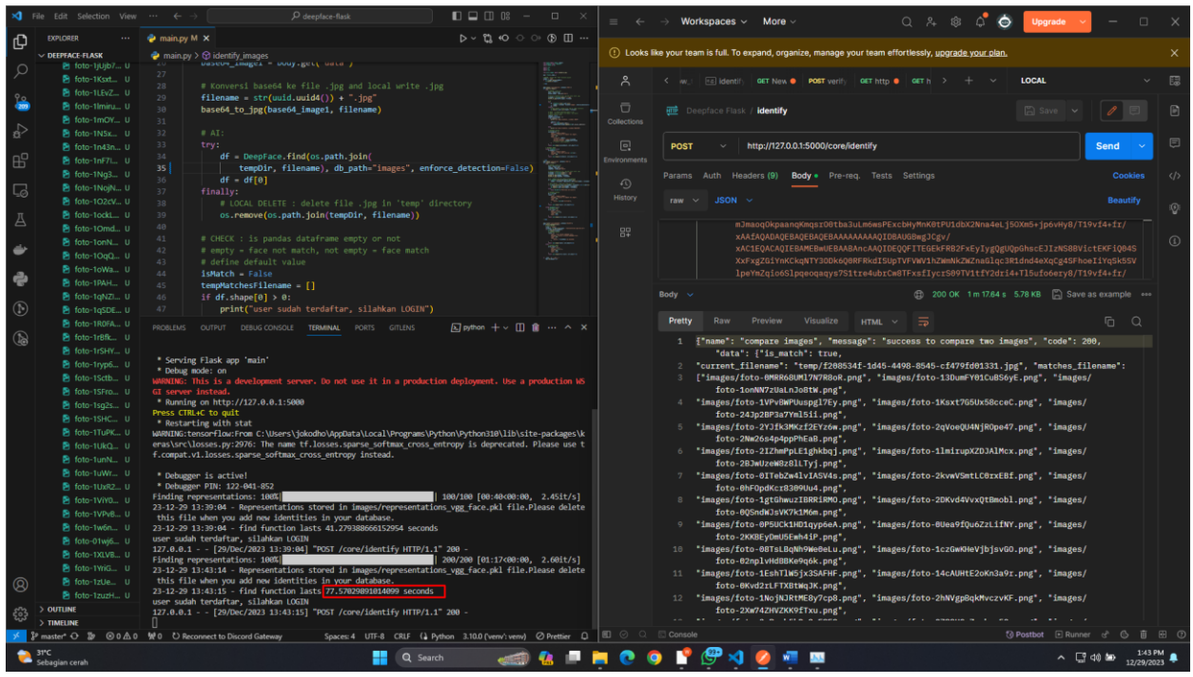
a) Test 1: 50 foto di identify dengan 1 foto. Hasilnya engine berhasil melakukan processing. Menghasilkan beberapa ulr foto yang cocok. Durasi processing adalah 19 detik.



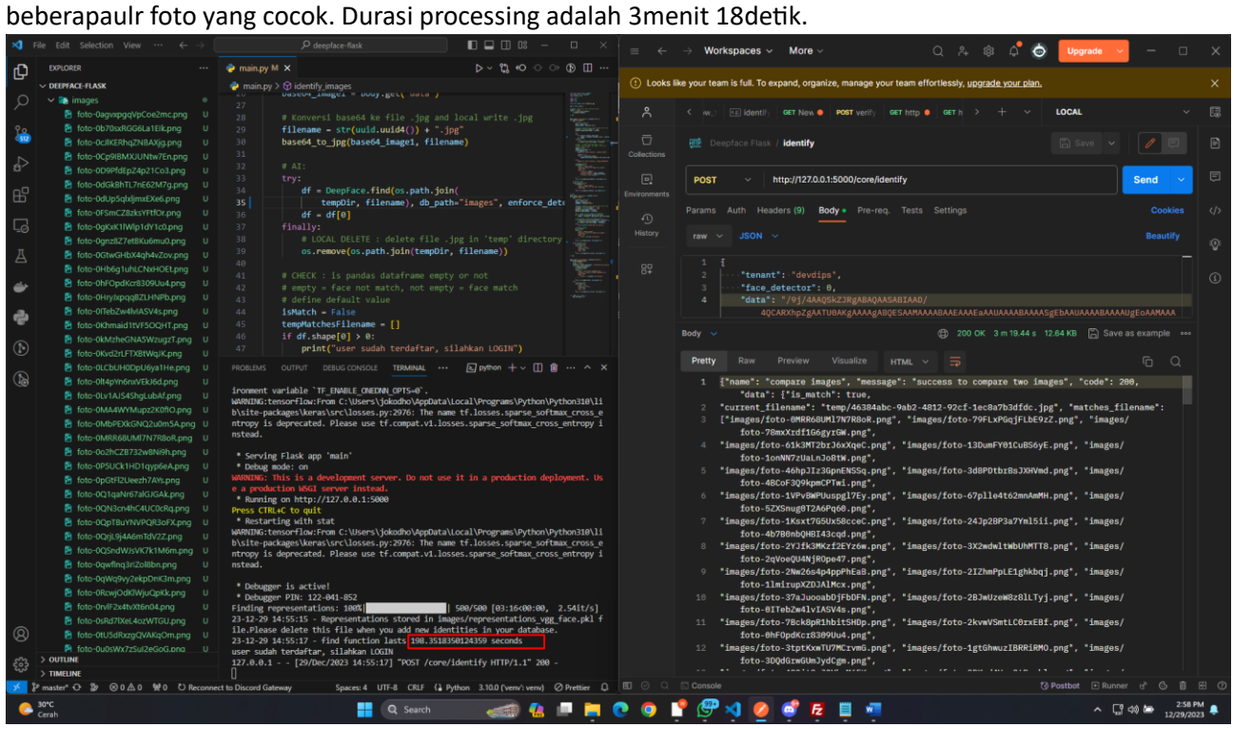
b) Test 2: 100 foto di identify dengan 1 foto. Hasilnya engine berhasil melakukan processing. Menghasilkan beberapa ulr foto yang cocok. Durasi processing adalah 41 detik.



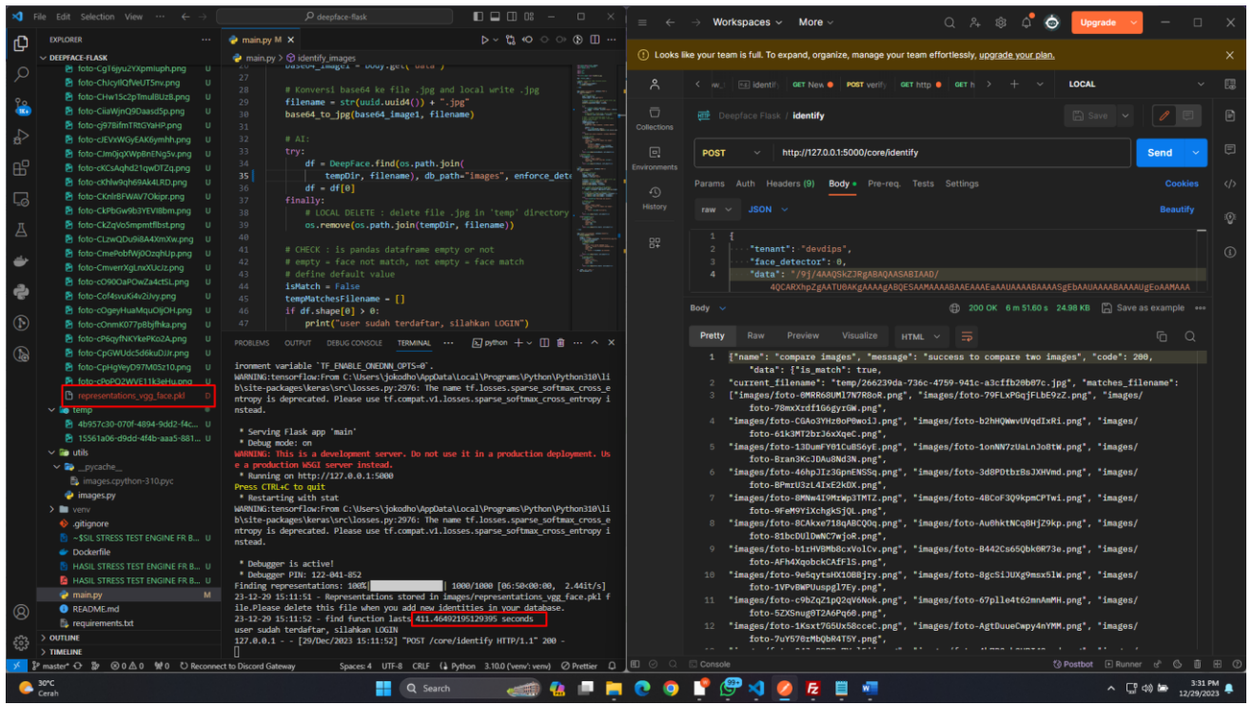
c) Test 3: 200 foto di identify dengan 1 foto. Hasilnya engine berhasil melakukan processing. Menghasilkan beberapa ulr foto yang cocok. Durasi processing adalah 77 detik.



d) Test 4: 500 foto di identify dengan 1 foto. Hasilnya engine berhasil melakukan processing. Menghasilkan beberapaulr foto yang cocok. Durasi processing adalah 3menit 18detik.



e) Test 5: 1000 foto di identify dengan 1 foto. Hasilnya engine berhasil melakukan processing. Menghasilkan beberapa ulr foto yang cocok. Durasi processing adalah 6menit 51detik.


File Edit Selection View
deepface-flask
EXPLORER
DEEPFACE-FLASK
main.py M
identify_images
# Konversi base64 ke file .jpg and local write .jpg
filename = str(uuid.uuid4()) + ".jpg"
base64_to_jpg(base64_image1, filename)
# AI:
try:
df = DeepFace.find(os.path.join(
tempDir, filename), db_path="images", enforce_det
df = df[0]
finally:
# LOCAL DELETE : delete file .jpg in 'temp' directory
os.remove(os.path.join(tempDir, filename))
# CHECK : is pandas dataframe empty or not
# empty = face not match, not empty = face match
# define default value
isMatch = False
tempMatchesFilename = []
if df.shape[0] > 0:
print("user sudah terdaftar, silahkan LOGIN")
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
python
ironment variable `TF_ENABLE_ONEDNN_OPTS=0`.
WARNING:tensorflow:From C:\Users\jokodho\AppData\Local\Programs\Python\Python310\lib\site-packages\keras\src\losses.py:2976: The name tf.losses.sparse_softmax_cross_entropy is deprecated. Please use tf.compat.v1.losses.sparse_softmax_cross_entropy instead.
* Serving Flask app 'main'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
WARNING:tensorflow:From C:\Users\jokodho\AppData\Local\Programs\Python\Python310\lib\site-packages\keras\src\losses.py:2976: The name tf.losses.sparse_softmax_cross_entropy is deprecated. Please use tf.compat.v1.losses.sparse_softmax_cross_entropy instead.
* Debugger is active!
* Debugger PIN: 122-041-852
finding representations: 100%| | 1000/1000 [06:50<00:00, 2.44it/s]
23-12-29 15:11:51 - Representations stored in images/representations_vgg_face.pkl file.Please delete this file when you add new identities in your database.
23-12-29 15:11:52 - find function lasts 411.46492195129395 seconds
user sudah terdaftar, silahkan LOGIN
127.0.0.1 - - [29/Dec/2023 15:11:52] "POST /core/identify HTTP/1.1" 200 -
Workspaces
More
Upgrade
Looks like your team is full. To expand, organize, manage your team effortlessly, upgrade your plan.
LOCAL
Collections
Environments
History
Deepface Flask / identify
Save
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http://127.0.0.1:5000/core/identify
Send
Params Auth Headers (9) Body Pre-req. Tests Settings
Cookies
raw JSON
Beautify
{
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"face_detector": 0,
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4QCARXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAEaAAUAAAABAAAASgEbAAUAAAABAAAAUgEoAAMAAA
Body
200 OK 6 m 51.60 s 24.98 KB Save as example
Pretty Raw Preview Visualize HTML
{"name": "compare images", "message": "success to compare two images", "code": 200, "data": {"is_match": true, "current_filename": "temp/266239da-736c-4759-941c-a3cffb20b07c.jpg", "matches_filename": ["images/foto-0MRR68UM17W7R8oR.png", "images/foto-79FLxPGqjFLbE9zZ.png", "images/foto-78mxXzdfiG6gyrGW.png", "images/foto-CGAo3YHz8oP8woiJ.png", "images/foto-b2hHQWwvUVqdIxRi.png", "images/foto-61k3MT2brJ6xXqeC.png", "images/foto-13DumFY81Cu8S6yE.png", "images/foto-1onNN7zUaLnJo8tW.png", "images/foto-8ran3KcJDAu8NdJN.png", "images/foto-46hpJIz3GpnEN5Sq.png", "images/foto-3d8PDtbrBsJXHVmd.png", "images/foto-8PmrU3zL4IxE2kDX.png", "images/foto-8MNw4I9MrWp3TMTZ.png", "images/foto-4BCoF3Q9kpmCPTwi.png", "images/foto-9FeM9YiXchgkSjQL.png", "images/foto-8CAkxe718qABCQOq.png", "images/foto-Au0hktNCq8HjZ9kp.png", "images/foto-81bcDUlDwNC7wjoR.png", "images/foto-b1rHVBMb8cxVolCv.png", "images/foto-B442Cs65Qbk0R73e.png", "images/foto-AFh4XqobckCAfFlS.png", "images/foto-9e5qytsHX1OBBjry.png", "images/foto-8gcSiJUXg9msx5lW.png", "images/foto-1VPvBWPUuspgl7Ey.png", "images/foto-c9bZq7IpQ2qV6Nok.png", "images/foto-67plle4t62mnAmMH.png", "images/foto-5ZX5nug9T2A6Pq60.png", "images/foto-1Kxxt765Ux58cceC.png", "images/foto-AgtDuueCwpy4nYMM.png", "images/foto-7uY570zMbQbR4T5Y.png",
Console
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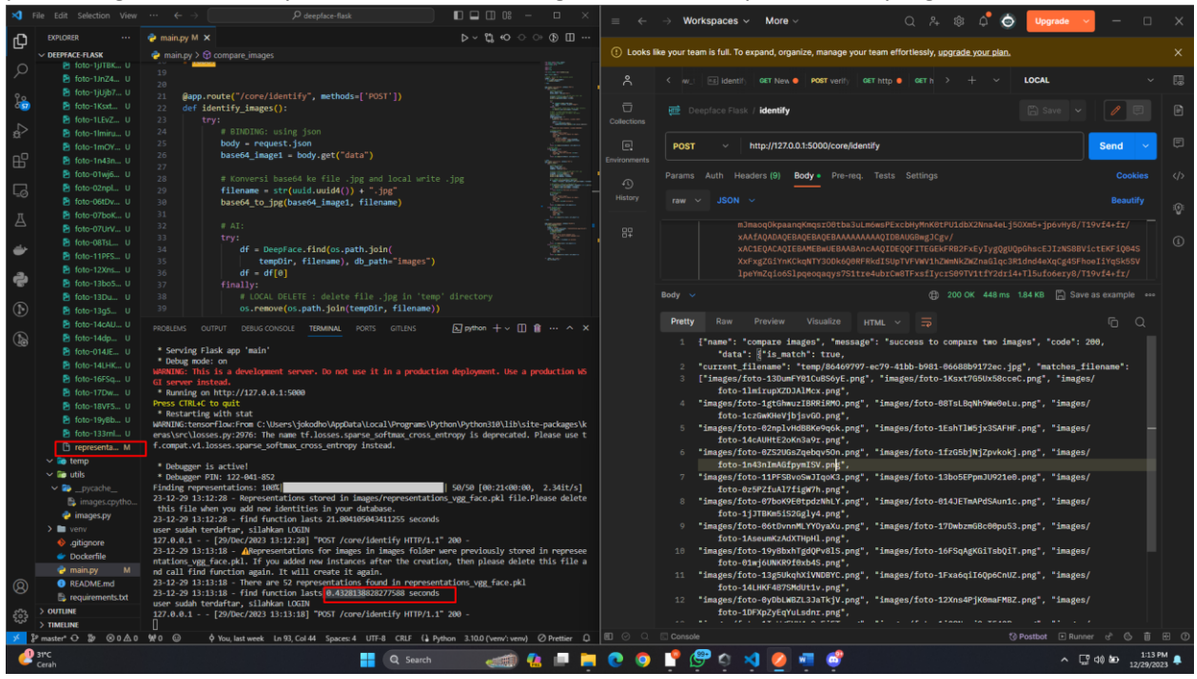
3:31 PM 12/29/2023

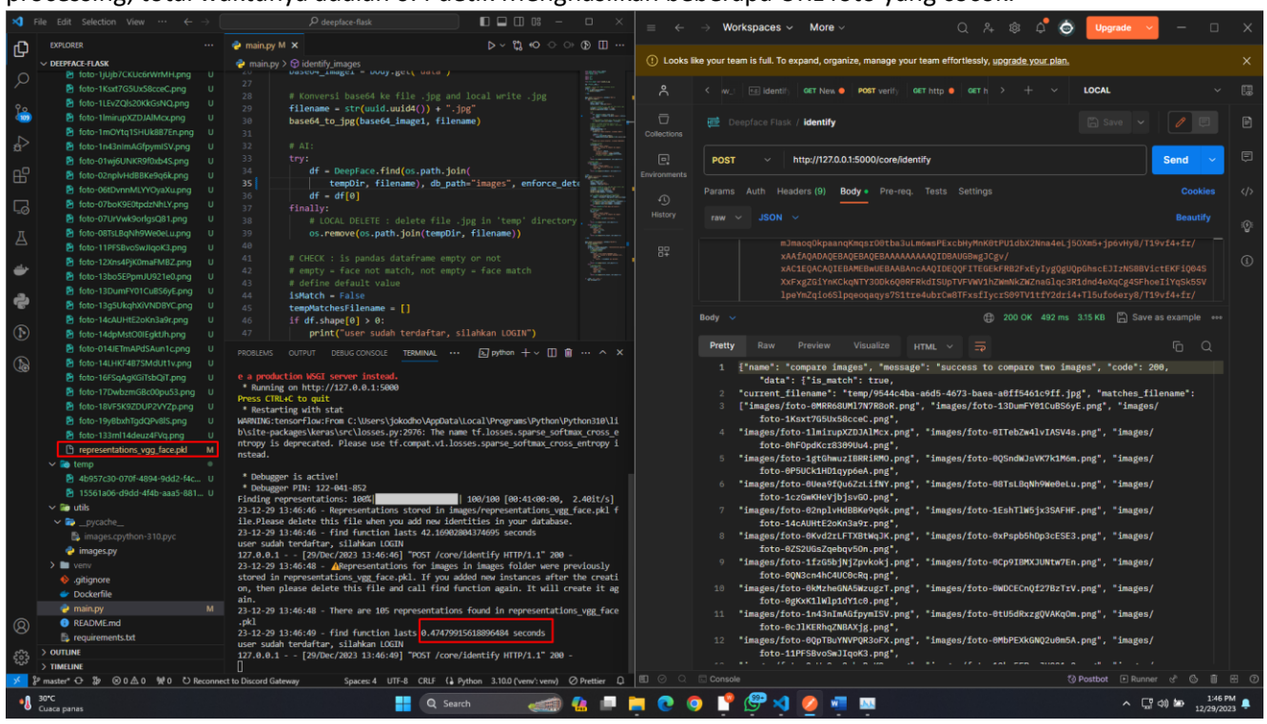
Skenario 2 : dengan embedded file

- Dengan adanya embedded file waktu processing menjadi semakin singkat
- Dengan catatan tidak ada perubahan terhadap database foto
- Apabila ada perubahan pada database foto maka harus mengenerate embedded file baru

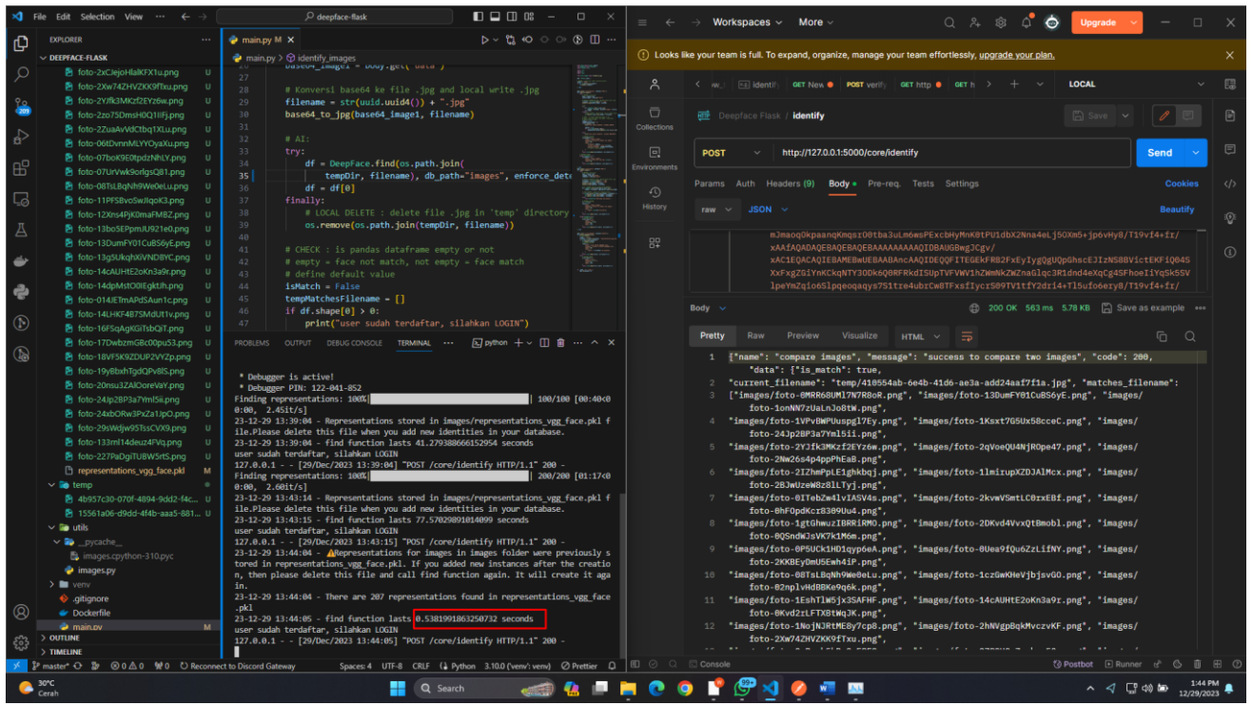
a) Test 1: 50 foto di identify dengan 1 foto memanfaatkan embedded file. Hasilnya engine sukses melakukan processing, total waktunya adalah 0.4 detik Menghasilkan beberapa URL foto yang cocok.



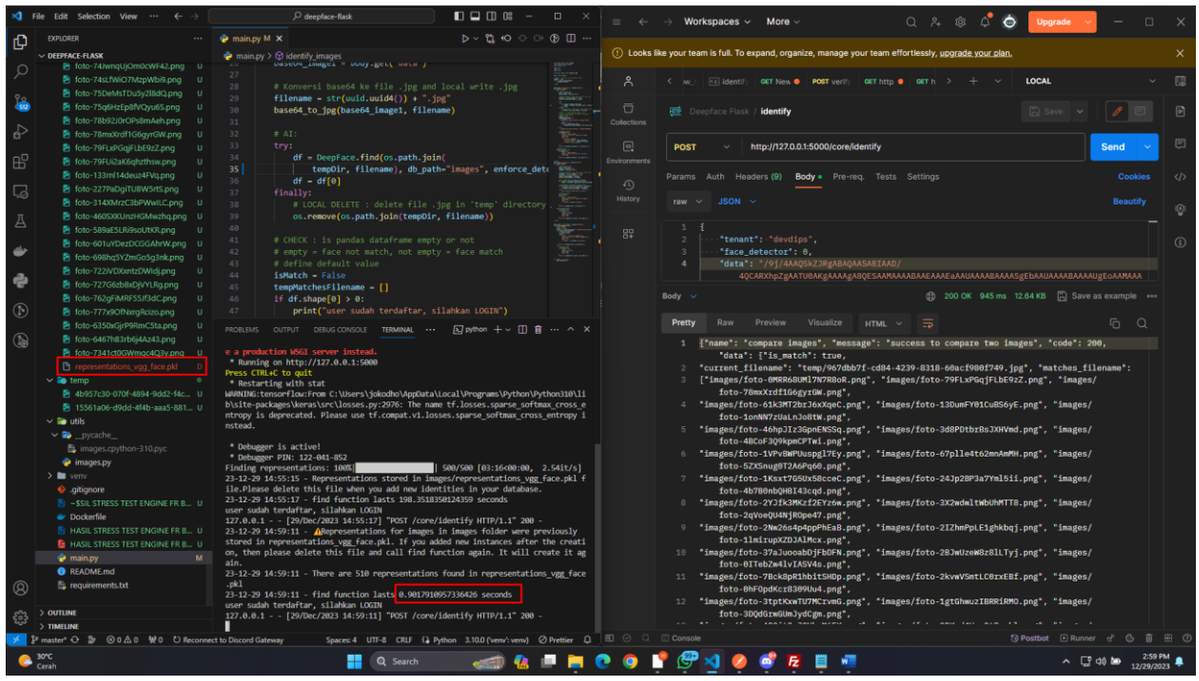
b) Test 2: 100 foto di identify dengan 1 foto memanfaatkan embedded file. Hasilnya engine sukses melakukan processing, total waktunya adalah 0.4 detik Menghasilkan beberapa URL foto yang cocok.



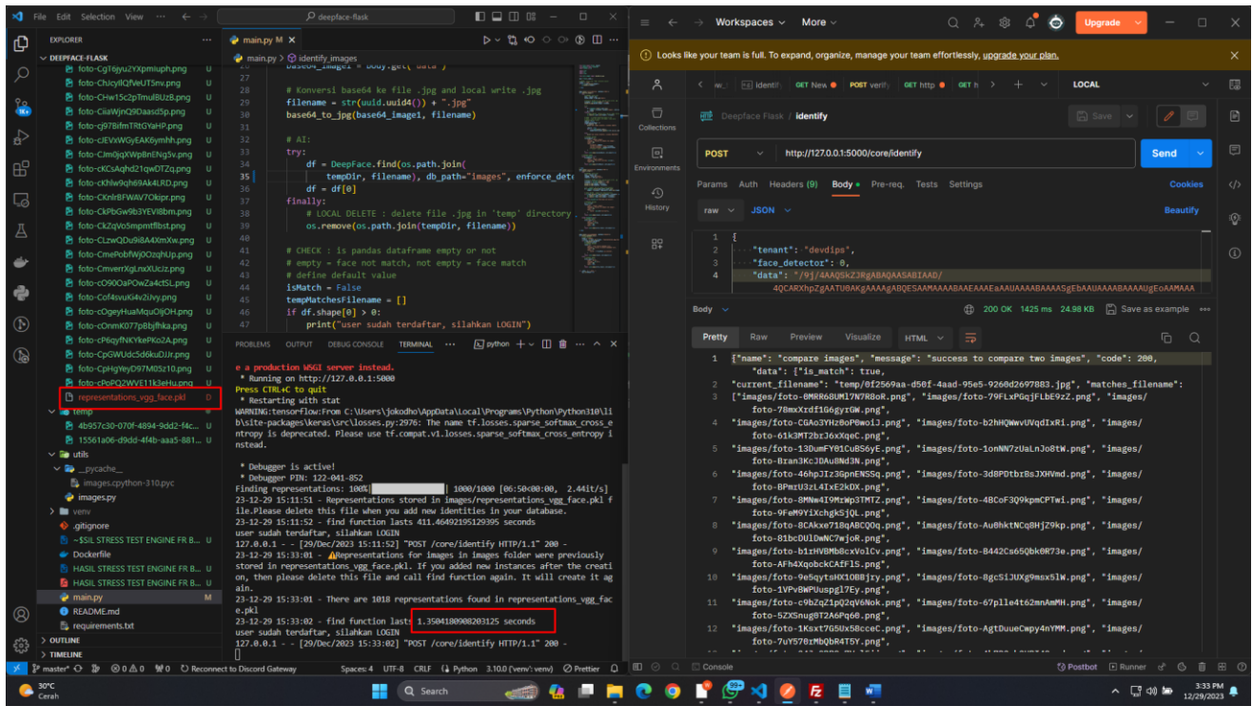
c) Test 3: 200 foto di identify dengan 1 foto memanfaatkan embedded file. Hasilnya engine sukses melakukan processing, total waktunya adalah 0.5 detik Menghasilkan beberapa URL foto yang cocok.



d) Test 4: 500 foto di identify dengan 1 foto memanfaatkan embedded file. Hasilnya engine sukses melakukan processing, total waktunya adalah 0.9 detik Menghasilkan beberapa URL foto yang cocok.



e) Test 5: 1000 foto di identify dengan 1 foto memanfaatkan embedded file. Hasilnya engine sukses melakukan processing, total waktunya adalah 1.3 detik Menghasilkan beberapa URL foto yang cocok.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127.0.0.1 - - [29/Dec/2023 15:11:52] "POST /core/identify HTTP/1.1" 200 -
23-12-29 15:33:01 - Representations for images in images folder were previously stored in representations_vgg_face.pkl. If you added new instances after the creation, then please delete this file and call find function again. It will create it again.
23-12-29 15:33:01 - There are 1018 representations found in representations_vgg_face.pkl
23-12-29 15:33:02 - find function lasts 1.3504180908203125 seconds
user sudah terdaftar, silahkan LOGIN
127.0.0.1 - - [29/Dec/2023 15:33:02] "POST /core/identify HTTP/1.1" 200 -
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main.py
README.md
requirements.txt
OUTLINE
TIMELINE
master*
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Workspaces More
Upgrade
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{
"tenant": "devdips",
"face_detector": 0,
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4QCARXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAEaAAUAAAABAAAASgEbAAUAAAABAAAAUgEoAAMAAA
Body
200 OK 1425 ms 24.98 KB
Save as example
Pretty Raw Preview Visualize HTML
{"name": "compare images", "message": "success to compare two images", "code": 200, "data": {"is_match": true, "current_filename": "temp/0f2569aa-d50f-4aad-95e5-9260d2697883.jpg", "matches_filename": ["images/foto-0MRR6U8UM17N7R8oR.png", "images/foto-79FLxPGqjFLbE9zZ.png", "images/foto-78mmXrdf1G6yrGW.png", "images/foto-CGAo3YHz8oP0woiJ.png", "images/foto-b2hHQWwvUVqdIxRi.png", "images/foto-61k3MT2brJ6xXqeC.png", "images/foto-13DumFY01CuBS6yE.png", "images/foto-1onNN7zUaLnJo8tW.png", "images/foto-Bran3KcJDAu8NdJN.png", "images/foto-46hpJIz3GpnENSSq.png", "images/foto-3d8PDtbr8sJXHVmd.png", "images/foto-BPmtU3zL4IxE2KOX.png", "images/foto-8MNw4I9MzWp3TMTZ.png", "images/foto-4BCoF3Q9kpmCPTwi.png", "images/foto-9FeM9YiXchgkSjQL.png", "images/foto-8CAkxe718qABCQOq.png", "images/foto-Au8hktNCq8HjZ9kp.png", "images/foto-81bcDUlDwNC7WjoR.png", "images/foto-b1rHVBMb8cxVolCv.png", "images/foto-8442Cs65Qbk0R73e.png", "images/foto-AFh4XqobckCAfF1S.png", "images/foto-9e5qytnHX1OBBjzy.png", "images/foto-8gcSiJUXg9msx51W.png", "images/foto-1VPvBWPUuspgl7Ey.png", "images/foto-c9bZqZ1pQ2qV6Nok.png", "images/foto-67p11e4t62mnAmMH.png", "images/foto-5ZXSnug0T2A6Pq60.png", "images/foto-1Ksxt7G5Ux58cceC.png", "images/foto-AgtDuueCmpy4nYMM.png", "images/foto-7uY5T0tMbQbR4TSY.png",
Console
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12/29/2023