

# CAPTURAS DEL CODIGO DEL SERVIDOR PYTHON.

- Importamos los paquetes que utilizaremos
- Tambien utilizamos las variables de entorno

```
Servidor-Python > server.py > ...
  Click here to ask Blackbox to help you code faster
1  from flask import Flask, request, jsonify
2  from dotenv import load_dotenv
3  import boto3
4  import base64
5  import os
6
7  app = Flask(__name__)
8
9  # Cargar variables de entorno desde el archivo .env
10 load_dotenv()
11
12 # Obtener las variables de entorno
13 AWS_ACCESS_KEY_ID = os.getenv('AWS_ACCESS_KEY_ID')
14 AWS_SECRET_ACCESS_KEY = os.getenv('AWS_SECRET_ACCESS_KEY')
15 AWS_REGION = os.getenv('AWS_REGION')
16
17 # Configurar el cliente de Rekognition
18 rekognition_client = boto3.client('rekognition',
19                                  aws_access_key_id=AWS_ACCESS_KEY_ID,
20                                  aws_secret_access_key=AWS_SECRET_ACCESS_KEY,
21                                  region_name=AWS_REGION)
22
23 @app.route('/tarea3-<carne>', methods=['POST'])
24 def procesar_imagen(carne):
25     if 'file' not in request.files:
26         return jsonify({'error': 'No se proporcionó ningún archivo'}), 400
27
28     file = request.files['file']
29     if file.filename == '':
```

- Cargamos la imagen al servidor y despues sacamos su base 64
- utilizamos boto3 para el cliente de aws

```

28     file = request.files['file']
29     if file.filename == '':
30         return jsonify({'error': 'No se seleccionó ningún archivo'}), 400
31
32     # Guardar la imagen en el servidor
33     filename = file.filename
34     file_path = os.path.join('./uploads', filename)
35     file.save(file_path)
36
37     # Leer la imagen en formato base64
38     with open(file_path, "rb") as image_file:
39         encoded_string = base64.b64encode(image_file.read()).decode()
40
41     # Eliminar la imagen del servidor
42     os.remove(file_path)
43
44     # Enviar la imagen a Rekognition
45     response = rekognition_client.detect_labels(
46         Image={'Bytes': base64.b64decode(encoded_string)})
47
48
49     # Obtener las etiquetas
50     relevant_data = []
51     for label in response['Labels']:
52         label_data = {
53             'Nombre': label['Name'],
54             'Confianza': label['Confidence'],
55             'Detalles': label['Instances'],
56             'Textos': label.get('TextInstances', [])
57         }
58         relevant_data.append(label_data)
59
60     return jsonify({'imagen': filename, 'datos_relevantes': relevant_data}), 200
61
62 if __name__ == '__main__':
63     app.run(debug=True)
64
```

- Recibimos la respuesta y parsemos los campos que queremos
- Devolvemos los campos en forma de json

```

# Obtener las etiquetas
relevant_data = []
for label in response['Labels']:
    label_data = {
        'Nombre': label['Name'],
        'Confianza': label['Confidence'],
        'Detalles': label['Instances'],
        'Textos': label.get('TextInstances', [])
    }
    relevant_data.append(label_data)

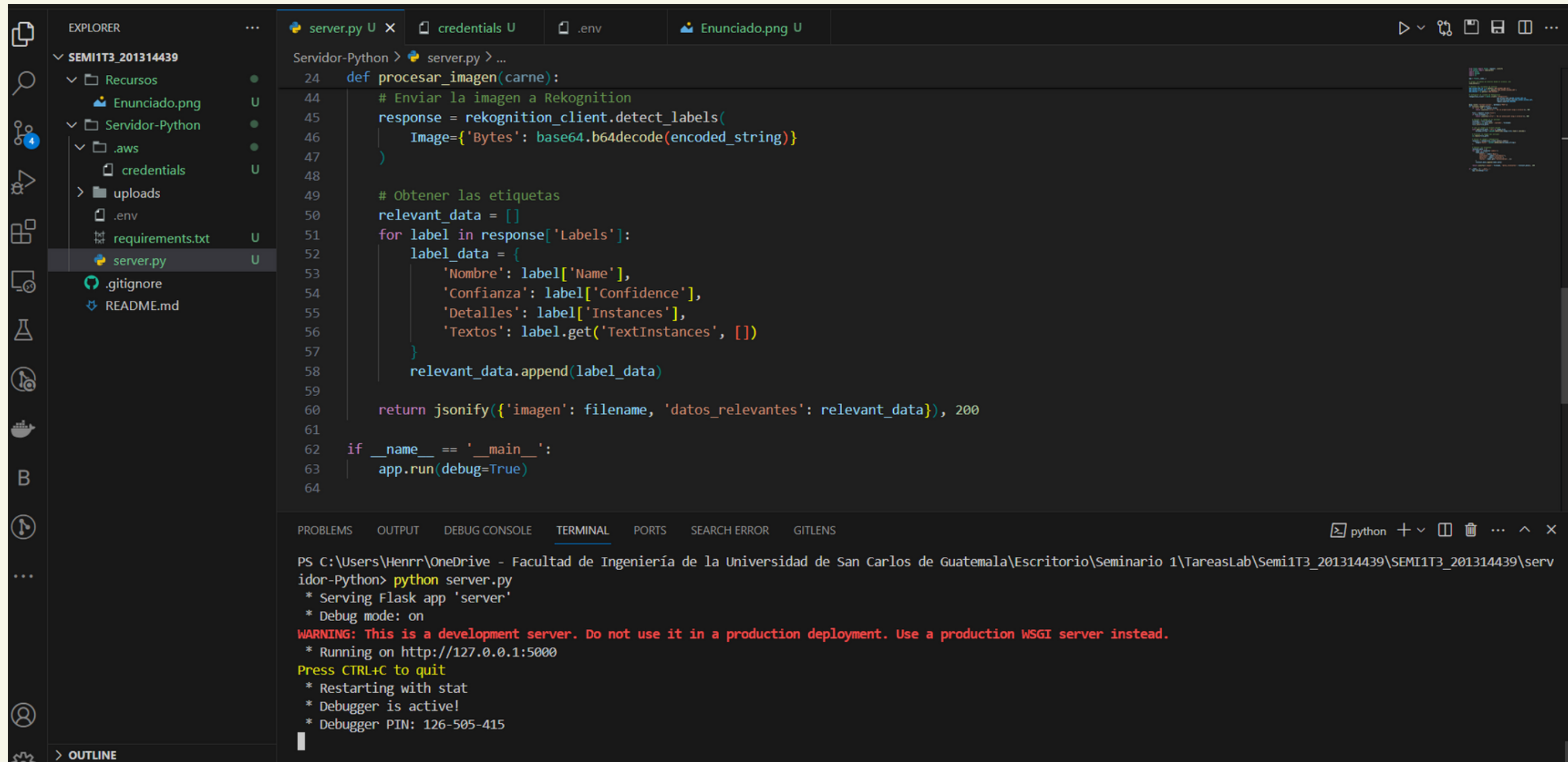
return jsonify({'imagen': filename, 'datos_relevantes': relevant_data}), 200

if __name__ == '__main__':
    app.run(debug=True)
```

# CAPTURA DEL SERVIDOR CORRIENDO.

- vemos que el puerto esta en el la siguiente ruta

http://localhost:5000



The screenshot shows a Visual Studio Code editor with a Python project. The Explorer sidebar on the left shows the file structure: SEMI1T3\_201314439 > Recursos > Enunciado.png, SEMI1T3\_201314439 > Servidor-Python > .aws > credentials, SEMI1T3\_201314439 > Servidor-Python > uploads > .env, SEMI1T3\_201314439 > Servidor-Python > requirements.txt, SEMI1T3\_201314439 > Servidor-Python > server.py, SEMI1T3\_201314439 > .gitignore, and SEMI1T3\_201314439 > README.md. The server.py file is open in the editor, showing the following code:

```
24 def procesar_imagen(carne):
44     # Enviar la imagen a Rekognition
45     response = rekognition_client.detect_labels(
46         Image={'Bytes': base64.b64decode(encoded_string)}
47     )
48
49     # Obtener las etiquetas
50     relevant_data = []
51     for label in response['Labels']:
52         label_data = {
53             'Nombre': label['Name'],
54             'Confianza': label['Confidence'],
55             'Detalles': label['Instances'],
56             'Textos': label.get('TextInstances', [])
57         }
58         relevant_data.append(label_data)
59
60     return jsonify({'imagen': filename, 'datos_relevantes': relevant_data}), 200
61
62 if __name__ == '__main__':
63     app.run(debug=True)
64
```

The terminal at the bottom shows the output of running the server:

```
PS C:\Users\Henrr\OneDrive - Facultad de Ingeniería de la Universidad de San Carlos de Guatemala\Escritorio\Seminario 1\TareasLab\Semi1T3_201314439\SEMI1T3_201314439\serv
idor-Python> python server.py
* Serving Flask app 'server'
* 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
* Debugger is active!
* Debugger PIN: 126-505-415
```



# CAPTURA DEL SERVIDOR CORRIENDO.

server.py U

credentials U

.env

Enunciado.png U

Servidor-Python > server.py > ...

```
24 def procesar_imagen(carne):
44     # Enviar la imagen a Rekognition
45     response = rekognition_client.detect_labels(
46         Image={'Bytes': base64.b64decode(encoded_string)}
47     )
48
49     # Obtener las etiquetas
50     relevant_data = []
51     for label in response['Labels']:
52         label_data = {
53             'Nombre': label['Name'],
54             'Confianza': label['Confidence'],
55             'Detalles': label['Instances'],
56             'Textos': label.get('TextInstances', [])
57         }
58         relevant_data.append(label_data)
59
60     return jsonify({'imagen': filename, 'datos_relevantes': relevant_data})
61
62 if __name__ == '__main__':
63     app.run(debug=True)
64
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SEARCH ERROR GITLENS

PS C:\Users\Henrr\OneDrive - Facultad de Ingeniería de la Universidad de San Carlos de Guayaquil> python server.py
\* Serving Flask app 'server'
\* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment
\* Running on http://127.0.0.1:5000
Press CTRL+C to quit
\* Restarting with stat
\* Debugger is active!
\* Debugger PIN: 126-505-415
127.0.0.1 - - [04/Mar/2024 21:57:28] "POST /tarea3-201314439 HTTP/1.1" 200 -

GET http://localhost:5000/tarea3-201314439

POST http://localhost:5000/tarea3-201314439

POST http://localhost:5000/tarea3-201314439

GET http://localhost:5000/tarea3-201314439

No Environment

Save

Send

Params Auth Headers (8) Body Pre-req. Tests Settings

form-data

Key	Value	Description	Bulk Edit
<input checked="" type="checkbox"/> file	File	Will-Smith-...	
Key	Text	Value	Description

Body

200 OK 1311 ms 4.02 KB Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "datos_relevantes": [
3     {
4       "Confianza": 98.0057601928711,
5       "Detalles": [
6         {
7           "BoundingBox": {
8             "Height": 0.45350298285484314,
9             "Left": 0.20361244678497314,
10            "Top": 0.38804176449775696,
11            "Width": 0.5543646216392517
12          },
13          "Confidence": 98.0057601928711
14        }
15      ],
16      "Nombre": "Adult",
17      "Textos": []
18    }
19  ]
20 }
```

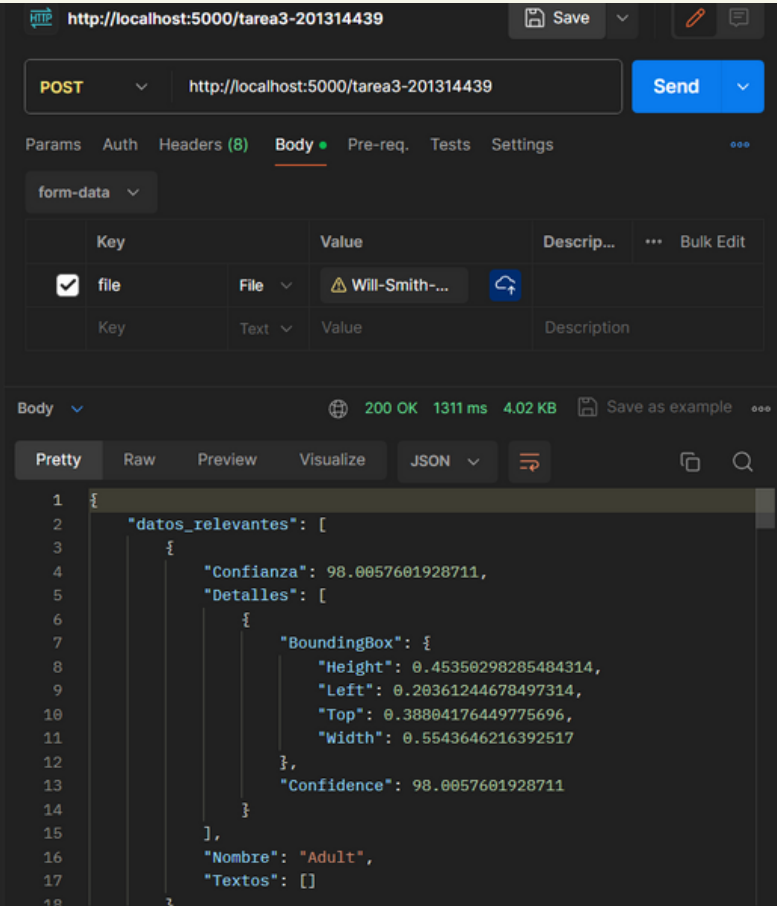
- Se envia la imagen como tal no como base 64 si no se hace la conversion dentro del servidor como podemos ver en esta area

- hacemos uso del endpoint:

<http://localhost:5000/tarea3-201314439>



# CAPTURA DE LAS ETIQUETAS QUE DEVUELVA REKOGNITION PARA LA IMAGEN ENVIADA.



```
18      },
19      {
20        "Confianza": 98.0057601928711,
21        "Detalles": [
22          {
23            "BoundingBox": {
24              "Height": 0.45350298285484314,
25              "Left": 0.20361244678497314,
26              "Top": 0.38804176449775696,
27              "Width": 0.5543646216392517
28            },
29            "Confidence": 98.0057601928711
30          }
31        ],
32        "Nombre": "Male",
33        "Textos": []
34      },
35      {
36        "Confianza": 98.0057601928711,
37        "Detalles": [
38          {
39            "BoundingBox": {
40              "Height": 0.45350298285484314,
41              "Left": 0.20361244678497314,
42              "Top": 0.38804176449775696,
43              "Width": 0.5543646216392517
44            },
45            "Confidence": 98.0057601928711
46          }
47        ],
48        "Nombre": "Man",
49        "Textos": []
50      },
51      {
52        "Confianza": 98.0057601928711,
53        "Detalles": [
54          {
55            "BoundingBox": {
56              "Height": 0.45350298285484314,
57              "Left": 0.20361244678497314,
58              "Top": 0.38804176449775696,
59              "Width": 0.5543646216392517
60            },
61            "Confidence": 98.0057601928711
62          }
63        ],
64        "Nombre": "Person",
65        "Textos": []
66      },
67      {
68        "Confianza": 86.2803955078125,
69        "Detalles": [],
70        "Nombre": "Standing",
71        "Textos": []
72      },
73      {
74        "Confianza": 79.71790313720703,
75        "Detalles": [],
76        "Nombre": "City",
77        "Textos": []
78      },
79      {
80        "Confianza": 78.4168472290039,
81        "Detalles": [],
82        "Nombre": "Road",
83        "Textos": []
84      },
85      {
86        "Confianza": 78.4168472290039,
87        "Detalles": [],
88        "Nombre": "Standing",
89        "Textos": []
90      },
91      {
92        "Confianza": 75.09879302978516,
93        "Detalles": [],
94        "Nombre": "Arch",
95        "Textos": []
96      },
97      {
98        "Confianza": 75.09879302978516,
99        "Detalles": [],
100       "Nombre": "Street",
101       "Textos": []
102     }
103   ],
104   "imagen": "Will-Smith-en-Angtigua-Guatemala.jpg"
105 }
```

```
105     "Detalles": [],
106     "Nombre": "Architecture",
107     "Textos": []
108   },
109   {
110     "Confianza": 75.09879302978516,
111     "Detalles": [],
112     "Nombre": "Gothic Arch",
113     "Textos": []
114   },
115   {
116     "Confianza": 67.42974853515625,
117     "Detalles": [],
118     "Nombre": "Landmark",
119     "Textos": []
120   },
121   {
122     "Confianza": 65.78656005859375,
123     "Detalles": [
124       {
125         "BoundingBox": {
126           "Height": 0.09246286749839783,
127           "Left": 0.8736579418182373,
128           "Top": 0.45089128613471985,
129           "Width": 0.09440509229898453
130         },
131         "Confidence": 65.78656005859375
132       }
133     ],
134     "Nombre": "Plant",
135     "Textos": []
136   },
137   {
138     "Confianza": 63.23008728027344,
139     "Detalles": [],
140     "Nombre": "Building",
141     "Textos": []
142   },
143   {
144     "Confianza": 63.23008728027344,
145     "Detalles": [],
146     "Nombre": "Clock Tower",
147     "Textos": []
148   },
149   {
150     "Confianza": 63.23008728027344,
151     "Detalles": [],
152     "Nombre": "Tower",
153     "Textos": []
154   },
155   {
156     "Confianza": 57.6481819152832,
157     "Detalles": [],
158     "Nombre": "Mosque Of Cordoba",
159     "Textos": []
160   },
161   {
162     "Confianza": 55.303565979003906,
163     "Detalles": [],
164     "Nombre": "Housing",
165     "Textos": []
166   },
167   {
168     "Confianza": 55.08332824707031,
169     "Detalles": [],
170     "Nombre": "Performer",
171     "Textos": []
172   },
173   {
174     "Confianza": 55.08332824707031,
175     "Detalles": [],
176     "Nombre": "Solo Performance",
177     "Textos": []
178   },
179   {
180     "Confianza": 55.08332824707031,
181     "Detalles": [],
182     "Nombre": "Housing",
183     "Textos": []
184   },
185   {
186     "Confianza": 55.08332824707031,
187     "Detalles": [],
188     "Nombre": "Performer",
189     "Textos": []
190   },
191   {
192     "Confianza": 55.08332824707031,
193     "Detalles": [],
194     "Nombre": "Solo Performance",
195     "Textos": []
196   },
197   {
198     "Confianza": 55.08332824707031,
199     "Detalles": [],
200     "Nombre": "Housing",
201     "Textos": []
202   },
203   {
204     "Confianza": 55.08332824707031,
205     "Detalles": [],
206     "Nombre": "Performer",
207     "Textos": []
208   },
209   {
210     "Confianza": 55.08332824707031,
211     "Detalles": [],
212     "Nombre": "Solo Performance",
213     "Textos": []
214   },
215   {
216     "Confianza": 55.08332824707031,
217     "Detalles": [],
218     "Nombre": "Housing",
219     "Textos": []
220   },
221   {
222     "Confianza": 55.08332824707031,
223     "Detalles": [],
224     "Nombre": "Performer",
225     "Textos": []
226   },
227   {
228     "Confianza": 55.08332824707031,
229     "Detalles": [],
230     "Nombre": "Solo Performance",
231     "Textos": []
232   },
233   {
234     "Confianza": 55.08332824707031,
235     "Detalles": [],
236     "Nombre": "Housing",
237     "Textos": []
238   },
239   {
240     "Confianza": 55.08332824707031,
241     "Detalles": [],
242     "Nombre": "Performer",
243     "Textos": []
244   },
245   {
246     "Confianza": 55.08332824707031,
247     "Detalles": [],
248     "Nombre": "Solo Performance",
249     "Textos": []
250   },
251   {
252     "Confianza": 55.08332824707031,
253     "Detalles": [],
254     "Nombre": "Housing",
255     "Textos": []
256   },
257   {
258     "Confianza": 55.08332824707031,
259     "Detalles": [],
260     "Nombre": "Performer",
261     "Textos": []
262   },
263   {
264     "Confianza": 55.08332824707031,
265     "Detalles": [],
266     "Nombre": "Solo Performance",
267     "Textos": []
268   },
269   {
270     "Confianza": 55.08332824707031,
271     "Detalles": [],
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273     "Textos": []
274   },
275   {
276     "Confianza": 55.08332824707031,
277     "Detalles": [],
278     "Nombre": "Performer",
279     "Textos": []
280   },
281   {
282     "Confianza": 55.08332824707031,
283     "Detalles": [],
284     "Nombre": "Solo Performance",
285     "Textos": []
286   },
287   {
288     "Confianza": 55.08332824707031,
289     "Detalles": [],
290     "Nombre": "Housing",
291     "Textos": []
292   },
293   {
294     "Confianza": 55.08332824707031,
295     "Detalles": [],
296     "Nombre": "Performer",
297     "Textos": []
298   },
299   {
300     "Confianza": 55.08332824707031,
301     "Detalles": [],
302     "Nombre": "Solo Performance",
303     "Textos": []
304   },
305   {
306     "Confianza": 55.08332824707031,
307     "Detalles": [],
308     "Nombre": "Housing",
309     "Textos": []
310   },
311   {
312     "Confianza": 55.08332824707031,
313     "Detalles": [],
314     "Nombre": "Performer",
315     "Textos": []
316   },
317   {
318     "Confianza": 55.08332824707031,
319     "Detalles": [],
320     "Nombre": "Solo Performance",
321     "Textos": []
322   },
323   {
324     "Confianza": 55.08332824707031,
325     "Detalles": [],
326     "Nombre": "Housing",
327     "Textos": []
328   },
329   {
330     "Confianza": 55.08332824707031,
331     "Detalles": [],
332     "Nombre": "Performer",
333     "Textos": []
334   },
335   {
336     "Confianza": 55.08332824707031,
337     "Detalles": [],
338     "Nombre": "Solo Performance",
339     "Textos": []
340   },
341   {
342     "Confianza": 55.08332824707031,
343     "Detalles": [],
344     "Nombre": "Housing",
345     "Textos": []
346   },
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348     "Confianza": 55.08332824707031,
349     "Detalles": [],
350     "Nombre": "Performer",
351     "Textos": []
352   },
353   {
354     "Confianza": 55.08332824707031,
355     "Detalles": [],
356     "Nombre": "Solo Performance",
357     "Textos": []
358   },
359   {
360     "Confianza": 55.08332824707031,
361     "Detalles": [],
362     "Nombre": "Housing",
363     "Textos": []
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365   {
366     "Confianza": 55.08332824707031,
367     "Detalles": [],
368     "Nombre": "Performer",
369     "Textos": []
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371   {
372     "Confianza": 55.08332824707031,
373     "Detalles": [],
374     "Nombre": "Solo Performance",
375     "Textos": []
376   },
377   {
378     "Confianza": 55.08332824707031,
379     "Detalles": [],
380     "Nombre": "Housing",
381     "Textos": []
382   },
383   {
384     "Confianza": 55.08332824707031,
385     "Detalles": [],
386     "Nombre": "Performer",
387     "Textos": []
388   },
389   {
390     "Confianza": 55.08332824707031,
391     "Detalles": [],
392     "Nombre": "Solo Performance",
393     "Textos": []
394   },
395   {
396     "Confianza": 55.08332824707031,
397     "Detalles": [],
398     "Nombre": "Housing",
399     "Textos": []
400   },
401   {
402     "Confianza": 55.08332824707031,
403     "Detalles": [],
404     "Nombre": "Performer",
405     "Textos": []
406   },
407   {
408     "Confianza": 55.08332824707031,
409     "Detalles": [],
410     "Nombre": "Solo Performance",
411     "Textos": []
412   },
413   {
414     "Confianza": 55.08332824707031,
415     "Detalles": [],
416     "Nombre": "Housing",
417     "Textos": []
418   },
419   {
420     "Confianza": 55.08332824707031,
421     "Detalles": [],
422     "Nombre": "Performer",
423     "Textos": []
424   },
425   {
426     "Confianza": 55.08332824707031,
427     "Detalles": [],
428     "Nombre": "Solo Performance",
429     "Textos": []
430   },
431   {
432     "Confianza": 55.08332824707031,
433     "Detalles": [],
434     "Nombre": "Housing",
435     "Textos": []
436   },
437   {
438     "Confianza": 55.08332824707031,
439     "Detalles": [],
440     "Nombre": "Performer",
441     "Textos": []
442   },
443   {
444     "Confianza": 55.08332824707031,
445     "Detalles": [],
446     "Nombre": "Solo Performance",
447     "Textos": []
448   },
449   {
450     "Confianza": 55.08332824707031,
451     "Detalles": [],
452     "Nombre": "Housing",
453     "Textos": []
454   },
455   {
456     "Confianza": 55.08332824707031,
457     "Detalles": [],
458     "Nombre": "Performer",
459     "Textos": []
460   },
461   {
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463     "Detalles": [],
464     "Nombre": "Solo Performance",
465     "Textos": []
466   },
467   {
468     "Confianza": 55.08332824707031,
469     "Detalles": [],
470     "Nombre": "Housing",
471     "Textos": []
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473   {
474     "Confianza": 55.08332824707031,
475     "Detalles": [],
476     "Nombre": "Performer",
477     "Textos": []
478   },
479   {
480     "Confianza": 55.08332824707031,
481     "Detalles": [],
482     "Nombre": "Solo Performance",
483     "Textos": []
484   },
485   {
486     "Confianza": 55.08332824707031,
487     "Detalles": [],
488     "Nombre": "Housing",
489     "Textos": []
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491   {
492     "Confianza": 55.08332824707031,
493     "Detalles": [],
494     "Nombre": "Performer",
495     "Textos": []
496   },
497   {
498     "Confianza": 55.08332824707031,
499     "Detalles": [],
500     "Nombre": "Solo Performance",
501     "Textos": []
502   },
503   {
504     "Confianza": 55.08332824707031,
505     "Detalles": [],
506     "Nombre": "Housing",
507     "Textos": []
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510     "Confianza": 55.08332824707031,
511     "Detalles": [],
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513     "Textos": []
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519     "Textos": []
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522     "Confianza": 55.08332824707031,
523     "Detalles": [],
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525     "Textos": []
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529     "Detalles": [],
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531     "Textos": []
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533   {
534     "Confianza": 55.08332824707031,
535     "Detalles": [],
536     "Nombre": "Solo Performance",
537     "Textos": []
538   },
539   {
540     "Confianza": 55.08332824707031,
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