

AIGEN User Guide

Face Liveness Detection

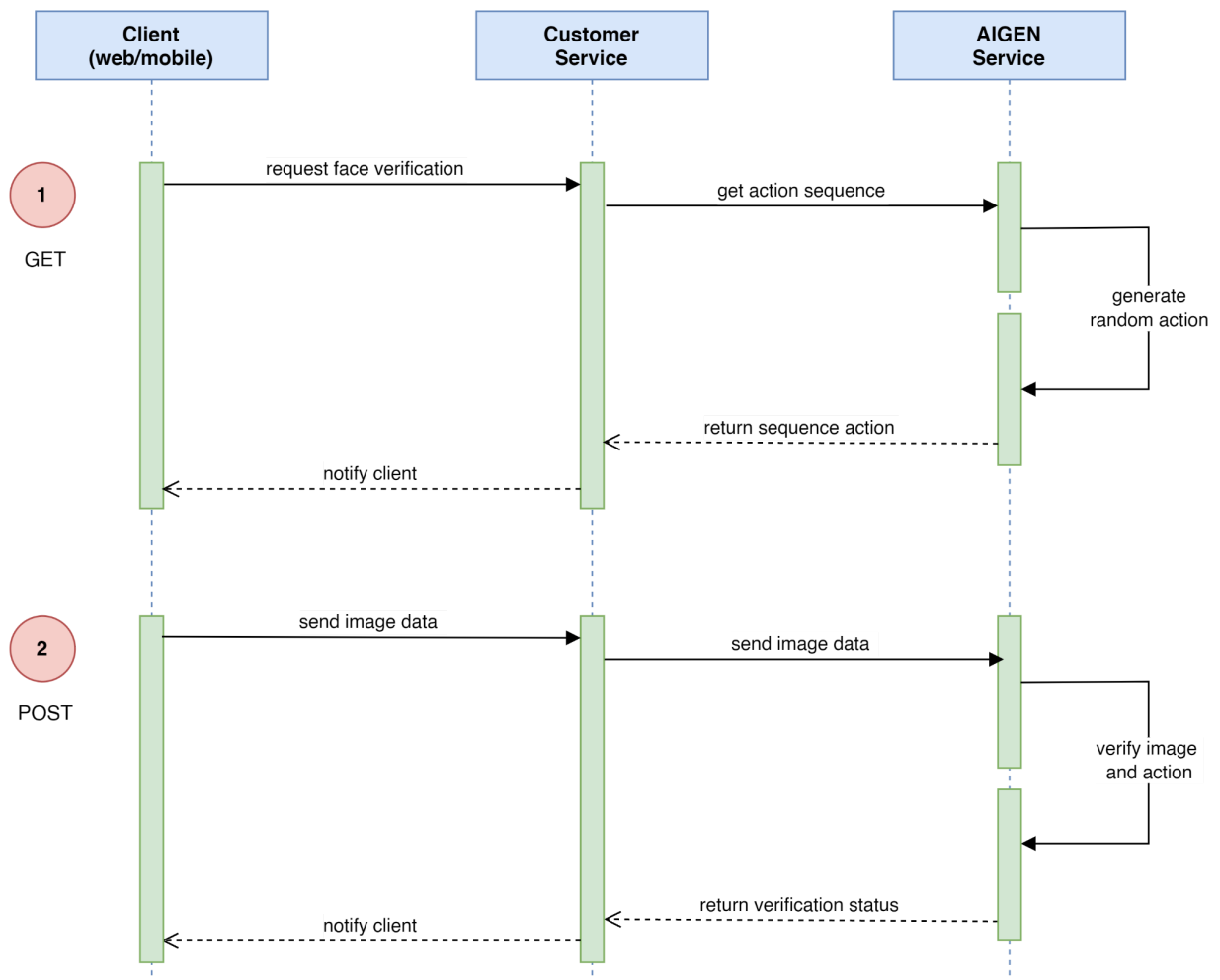
Overview

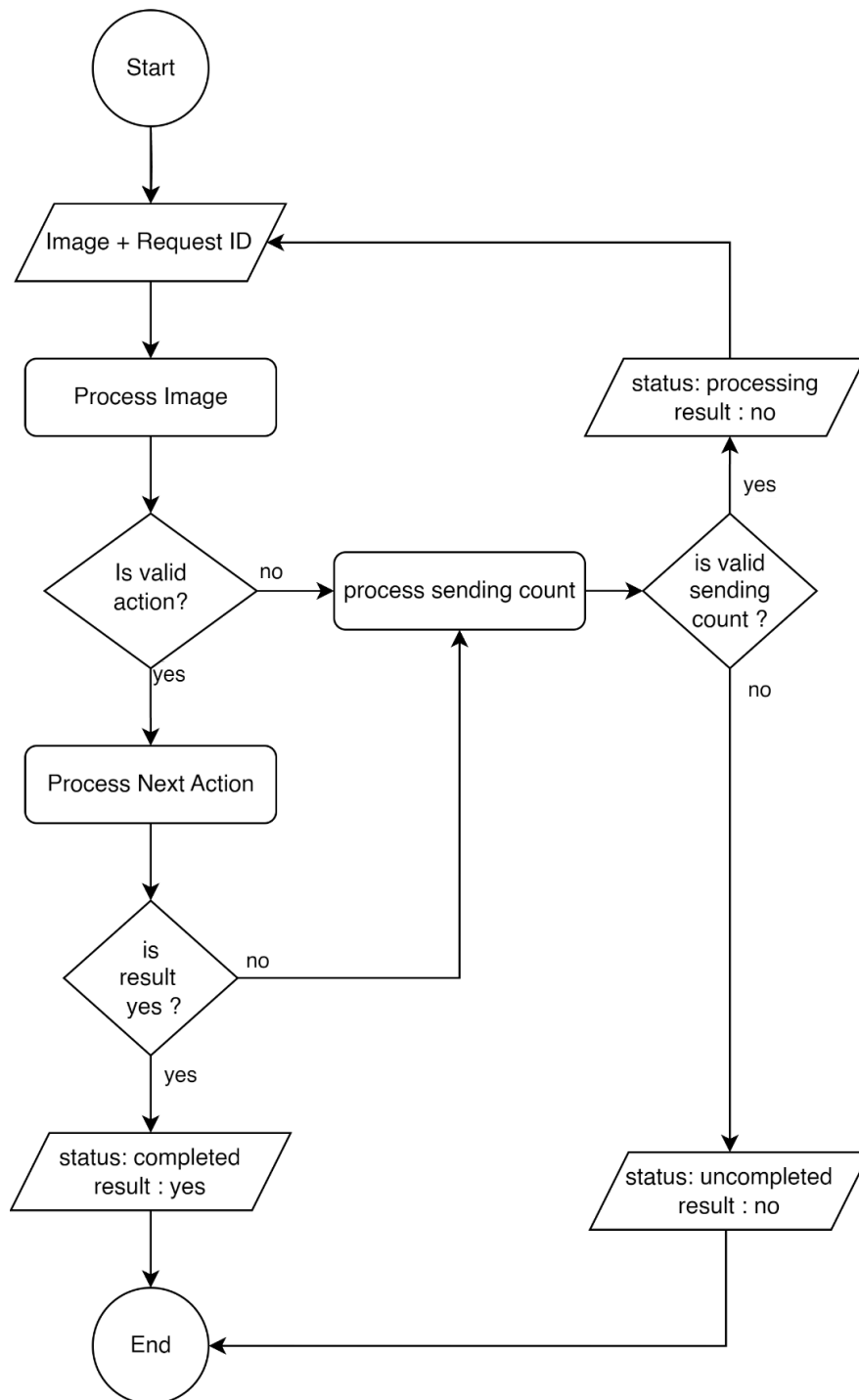
Face Liveness Detection

Verify images with random sequence actions to determine if the person is a real human.

API Description

Liveness Detection Sequence





Service Address

Domain name for API request: **https://apis.aigen.online/aiface/liveness-detection/v1**

Communications Protocol

APIs communicate via HTTPS, providing highly secure communication tunnels.

Request Methods

Supported HTTP request methods:

- GET
- POST

Request Headers

Common parameters should be uniformly placed in the HTTP request header, as shown below.

Header Name	Required	Type	Description
x-aigen-key	Yes	String	The token used for a request authentication.
Content-Type	Yes	String	Content type application/json (recommended).

HTTP status

HTTP Status	Code	Message	Description
200	-	-	OCR success.
422	Invalid Input	Unprocessable Entity	Request is missing or invalid input.

Get Action Sequence (GET)

Query Parameters

The following request parameter list provides API request parameters and common parameters.

Parameter Name	Required	Type	Description
mode	Yes	Integer	Choose number for liveness actions example 1 - random 1 action Note: The default value is 3.
part	No	String	Choose part "face" and "hand" example choose "face" part will return random actions in face actions example Turn_left, Look_up Note: The default value is None.
select	No	String	Specific choices to random example Turn_left, Turn_right, Left_hand, Backhand_right_hand Note: The default value is None.

Output Parameters

Parameter Name	Type	Description
request_id	String	The unique request ID, which is returned for each request.
status	Object	Response status message. (completed/uncompleted/processing)
next_choice	Float	Next action sequence.
time_used	Object	Compute time used.
response_id	String	The unique request ID, which is returned for each request.

Error List

The following only lists the error codes related to the API .

Parameter Name	Type	Description
detail	String	Error object description.
code	String	Error Code.
message	String	Error message detail.

Get Action Sequence Example

Example 1

cURL

Input Example

```
curl --location  
'https://apis.aigen.online/aiface/liveness-detection/v1?mode=3&part=face&select=Turn_right&select=Turn_left&select=Look_up'
```

Output Example

```
{  
  "request_id": "c404bb92-a283-11ee-adb8-0e7122b5bec0",  
  "status": "processing",  
  "next_choice": "Turn_right",  
  "time_used": 0.0000438690185546875,  
  "response_id": "b3b6d238-d920-4d5e-8462-baf33375fb71"  
}
```

Verify Action Sequence (POST)

Data Parameters

The following request parameter list provides API request parameters and common parameters.

Parameter Name	Required	Type	Description
request_id	Yes	Integer	Request ID from GET method action sequence (Get Action Sequence).
image	No	String	Base64 image encoded string, Supported PDF and image formats: PNG, JPG, JPEG.

Output Parameters

Parameter Name	Type	Description
result	String	Verification result. (Yes/No)
status	Object	Response status message. (completed/uncompleted/processing)
next_choice	Float	Next action sequence.
time_used	Object	Compute time used.
response_id	String	The unique request ID, which is returned for each request.

Error List

The following only lists the error codes related to the API .

Parameter Name	Type	Description
detail	String	Error object description.
code	String	Error Code.
message	String	Error message detail.

POST Action Sequence Example

Example 1

cURL

Input Example

```
curl --location 'https://apis.aigen.online/aiface/liveness-detection/v1' \
--header 'x-aigen-key: SBxxxxxxxxxxxxxxxxxxxxxxxxxxxx' \
--header 'Content-Type: application/json' \
--data '{
    "image": "base64 encoded",
    "request_id": "c404bb92-a283-11ee-adb8-0e7122b5bec0"
}'
```

Output Example

```
{
  "result": "Yes",
  "status": "completed",
  "next_choice": "",
  "time_used": 0.0000438690185546875,
  "response_id": "b3b6d238-d920-4d5e-8462-baf33375fb71"
}
```

Developer Resources

- <https://developer.aigen.online/signup>
- <https://developer.aigen.online/login>
- <https://developer.aigen.online/resources>
- <https://docs.aigen.online/documents/v/v1/api-reference/aiface>