

# Similarity Search API Specification

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## Use cases

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### Find similar stock to item from image

- 1 endpoint way:
  - [Post item via code / image { url, text }](#) to get similar stock
    - Improved latency if `code` & `variation_code` are used
- 2 endpoints way:
  - [Post image binary](#) to get item tokens
  - [Post item token](#) to get similar stock

### Recognize items from image

- [Post image binary](#) to get items that contain recognized information & token for use with other endpoints

## Common attributes

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Base URL: <https://cubki.jp/api/v1>

## POST `/sim_searches/<provider>/items.json`

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### Purpose

Find stock similar to the posted item.

### Request body

Allowed Content-Type is `multipart/form-data`, `application/x-www-form-urlencoded` and `application/json`.

### Post item via code / image

Optional - if any used: all required

- `code` (string): Same as `stock.code` of the response
- `variation_code` (string): Same as `stock.variation_code` of the response

If `code` & `variation_code` are found, the response latency will be lower than using `image` .

### Required

- `image` (object: { `url`, `text` }):
  - `url` (string): URL of the image that contains the item (or multiple items)
  - `text` (string): Text used to choose the target item of the above image for the search

If `code` & `variation_code` are not found or not specified, it will use `image` .

### Post item via token

- `token` (string): A value in a `token` field that is returned from [POST /sim\\_searches/<provider>.json](#)

### Query parameters

- `include` (string, default: `stock` ): Specify fields to be returned
  - (Example 1) `stock` : Will include `stock` field
  - (Example 2) `stock.images` : Will include `stock` field that contains `images`
  - (Example 3) `stock.standard_images` : Will include `stock` field that contains `standard_images`
  - (Example 4) `stock.standard_images,stock.thumbnail_images` : Will include `stock` field that contains both of `standard_images` and `thumbnail_images`
  - (Example 5) `stock.distance` : Will include `stock` field that contains `distance` as a descendant child
- `stock_limit` (integer: 1 - 100 , default: 20 )
  - Controls how many stocks will be returned for each item at most
  - Note that this doesn't guarantee the number of stock will be returned
  - Will be used only when the response contains a `stock` field
- `gender` (string: `female` , `male` or `unisex` )
  - Specifies which gender type of stocks should be returned
  - When specifying `female` or `male` , `unisex` stock will also be returned
  - When specifying `unisex` , only `unisex` stock will be returned
  - When this parameter isn't passed, gender types aren't considered
- `age_group` (string: `kids` or `adult` )
  - Specifies which age group of stocks should be returned
  - When this parameter isn't passed, the field isn't considered
- `sizes%5B%5D` (string: Any value in a list which is configured when indexing)
  - Specifies which size of stocks should be returned
  - When this parameter isn't passed, the field isn't considered
  - When this parameter is specified multiple times, it works as an OR condition

## Examples

Request for item with `some-token`

```
$ curl -X POST 'https://cubki.jp/api/v1/sim_searches/baroque_japan/items.json?
gender=female&age_group=adult&include=stock.distance&sizes%5B%5D=S&sizes%5B%5D=M'
-F token=some-token
```

Response:

```
{
  "category": "hat",
  "token": "some-token",
  "stock": [
    {
      "code": "250ESM30-023B",
      "url": "https://cubki.jp/stock/baroque_japan/250ESM30-023B/variations/7422",
      "name": "BOUCLE LOOSE CPO JACKET",
      "categories": [
        "AZUL by moussy",
        "アウター",
        "ジャケット"
      ],
      "brand": "AZUL by moussy",
      "review_count": null,
      "list_price": 3294,
      "list_price_text": "¥3,294",
      "sales_price": 3294,
      "sales_price_text": "¥3,294",
      "provider_name": "baroque_japan",
      "provider_display_name": "SHEL'TTER WEBSTORE",
      "variation_code": "742269",
      "unique_code": "baroque_japan:250ESM30-023B:742269",
      "distance": 0.12345
    },
    {
      "code": "510DAZ30-0820",
      "url": "https://cubki.jp/stock/baroque_japan/510DAZ30-0820/variations/7298",
      "name": "BRUSHED OVER JK",
      "categories": [
        "LAGUA GEM",
        "アウター",
        "ブルゾン"
      ],
      "brand": "LAGUA GEM",
      "review_count": null,
      "list_price": 8360,
      "list_price_text": "¥8,360",
      "sales_price": 8360,
      "sales_price_text": "¥8,360",
    }
  ]
}
```

```
"provider_name": "baroque_japan",
"provider_display_name": "SHEL'TTER WEBSTORE",
"variation_code": "729874",
"unique_code": "baroque_japan:510DAZ30-0820:729874",
"distance": 0.23456
},
...
]
}
```

## POST /sim\_searches/<provider>.json

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### Purpose

Recognize items of an image. Get token for each item for use with other endpoints.

### Request body

Allowed Content-Type is multipart/form-data .

- `image` (Binary image data. Tested with JPEG, PNG, GIF, WebP): Query image

### Query parameters

- `include` (string, default: `items` ): Specify fields to be returned
  - (Example 1) `items` : Will include `items` field in the response
  - (Example 2) `items.stock` : Will include `items` field that contains `stock` as a descendant child
  - (Example 3) `items.stock.standard_images,items.stock.thumbnail_images` : Will include `items` field that contains `stock` as a descendant child that contains both of `standard_images` and `thumbnail_images`
- `stock_limit` (integer: 1 - 100 , default: 20 )
  - Controls how many stocks will be returned for each item at most
  - Note that this doesn't guarantee the number of stock will be returned
  - Will be used only when the response contains a `stock` field in an item field

### Examples

Request using default values:

```
$ curl -X POST 'https://cubki.jp/api/v1/sim_searches/baroque_japan.json' -F
image=@model.jpeg
```

Response for above request:

```
{
  "items": [
    {
      "category": "hat",
      "labels": [
        {
          "name": "ブラック",
          "score": 0.98542356
        }
        ...
      ],
      "bounding_box": {
        "top": 0.11900735,
        ...
      },
      "token": "some-token"
    },
    ...
  ]
}
```