

# The goal of this manual

This manual is about how to use the Meiyume data APIs.

There are two files you need to know about the APIs and how to call the APIs:

- 1) requirements.txt => This is used to install the packages you need
- 2) fastapi\_APIs.py => The file you need to run to support the APIs

You will need to run a local server through all the data APIs that can be fetched. Then you can get all the data you need through RestAPI and all the data are returned in JSON format. **The script is to be run in the Remote Desktop environment.**

In short:

There are only two commands you need to run. The first command is to run only once for the setup. The second is the one you need for the development purpose.

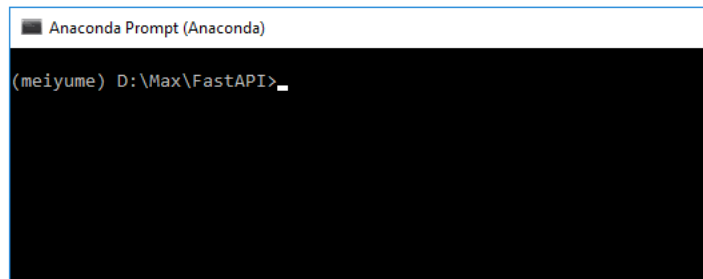
- 1) pip install -r requirements.txt
- 2) uvicorn fastapi\_APIs:app --reload

The details are on the next page onwards.

# Set up the environment and make it run

First of all, you need to set up the environment by installing the packages you need:

1. cd to the folder where you save the two files above, as the screenshot shows, they are in D:\Max\FastAPI for example:

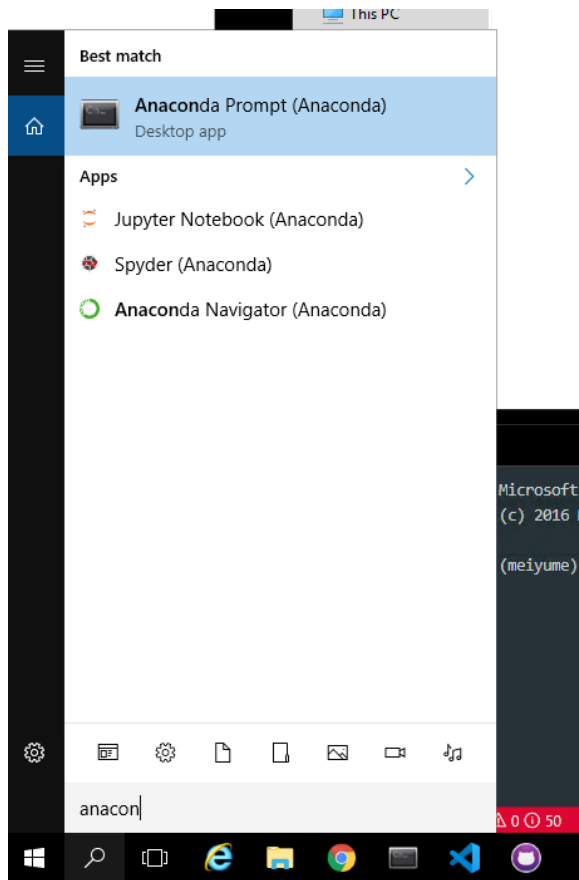


The terminal is the Anaconda Prompt terminal.

How to install the Anaconda? Please refer to this tutorial:

<https://docs.anaconda.com/anaconda/install/>

After you installed the Anaconda, open the Anaconda Prompt terminal in search:



If you are using Mac, you can find it in a global search.

2. Install the packages by running this command in the Anaconda Prompt terminal:

`pip install -r requirements_max.txt`

```
Anaconda Prompt (Anaconda)

(meiyume) D:\Max\FastAPI>pip install -r requirements_max.txt
Requirement already satisfied: aiohttp==3.7.3 in d:\max\anaconda\envs\meiyume\lib\site-packages (from -r requirements_max.txt (line 1)) (3.7.3)
Requirement already satisfied: aiohttp-cors==0.7.0 in d:\max\anaconda\envs\meiyume\lib\site-packages (from -r requirements_max.txt (line 2)) (0.7.0)
Requirement already satisfied: aioredis==1.3.1 in d:\max\anaconda\envs\meiyume\lib\site-packages (from -r requirements_max.txt (line 3)) (1.3.1)
Requirement already satisfied: appdirs==1.4.4 in d:\max\anaconda\envs\meiyume\lib\site-packages (from -r requirements_max.txt (line 4)) (1.4.4)
Requirement already satisfied: argon2-cffi@ file:///D:/bld/argon2-cffi_1596630042503/work in d:\max\anaconda\envs\meiyume\lib\site-packages (from -r requirements_max.txt (line 5)) (1.10)
Requirement already satisfied: async-generator==1.10 in d:\max\anaconda\envs\meiyume\lib\site-packages (from -r requirements_max.txt (line 6)) (1.10)
```

3. You can run the unicorn server to make all the APIs work by running the command:

`uvicorn fastapi_APIs:app --reload`

```
nct_products : 150},
ct_
":1
"di
6,
rod
pro
pro
odu
uk"

Anaconda Prompt (Anaconda) - uvicorn fastapi_APIs:app --reload

(meiyume) D:\Max\FastAPI>uvicorn fastapi_APIs:app --reload
[32mINFO[0m: Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)
[32mINFO[0m: Started reloader process [36m[1m13356[0m] using [36m[1mwatchdog[0m]
[32mINFO[0m: Started server process [36m[1m9332[0m]
[32mINFO[0m: Waiting for application startup.
[32mINFO[0m: Application startup complete.
```

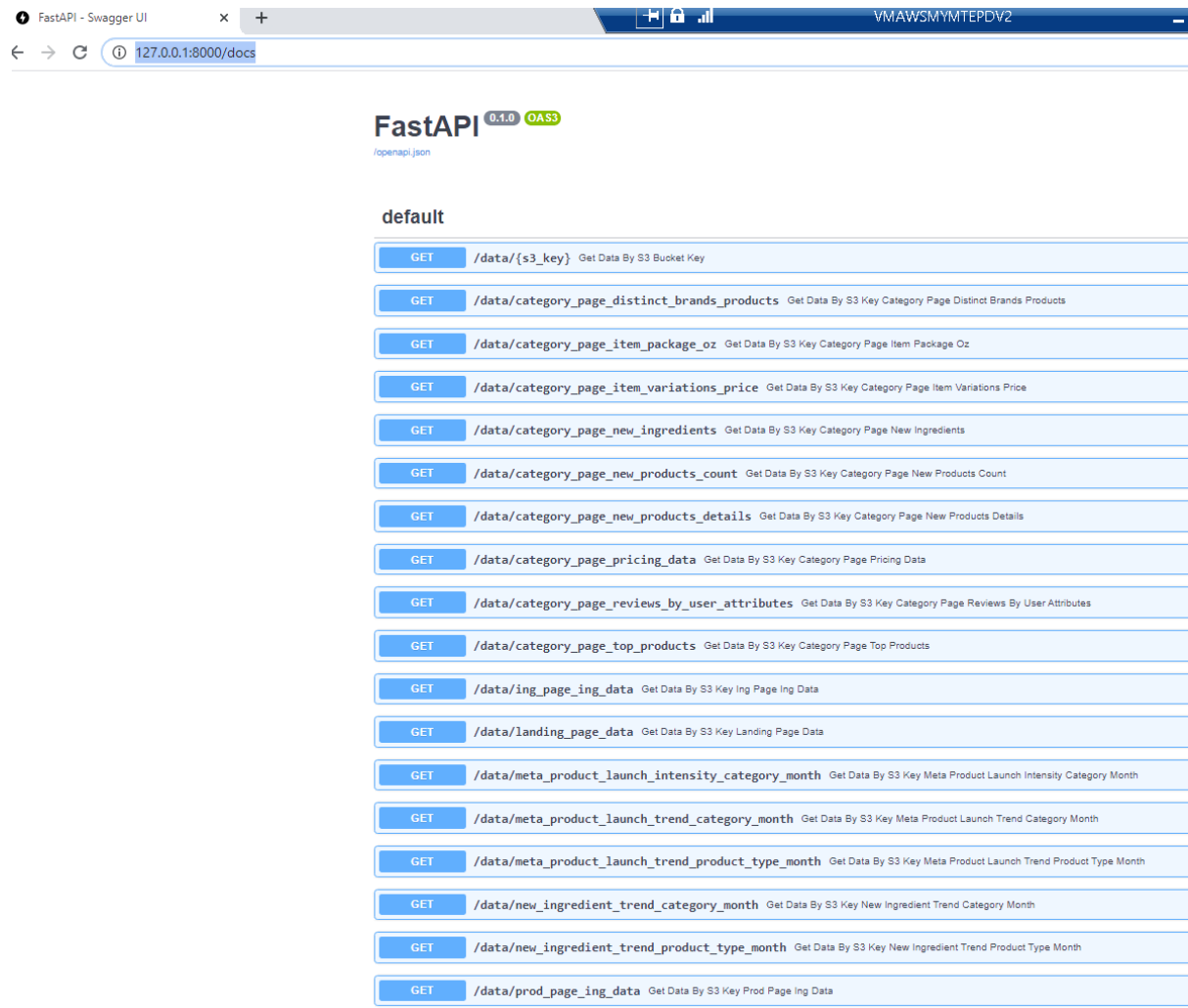
By now, you have all the APIs working on your local server. And you can see from the terminal:

All the APIs are hosted on <http://127.0.0.1:8000>

# Check the APIs on Swagger UI

To check all the APIs in Swagger UI, you can go to the Swagger page through:

<http://127.0.0.1:8000/docs>



The screenshot shows the Swagger UI for a FastAPI application. The browser address bar displays `http://127.0.0.1:8000/docs`. The page header includes the FastAPI logo with version `0.1.0` and the `OAS3` specification. Below the header, the `default` tag is selected, and a list of 20 GET endpoints is displayed. Each endpoint is shown with its HTTP method (GET), the full URL, and a brief description of the endpoint's function.

Method	Endpoint	Description
GET	<code>/data/{s3_key}</code>	Get Data By S3 Bucket Key
GET	<code>/data/category_page_distinct_brands_products</code>	Get Data By S3 Key Category Page Distinct Brands Products
GET	<code>/data/category_page_item_package_oz</code>	Get Data By S3 Key Category Page Item Package Oz
GET	<code>/data/category_page_item_variations_price</code>	Get Data By S3 Key Category Page Item Variations Price
GET	<code>/data/category_page_new_ingredients</code>	Get Data By S3 Key Category Page New Ingredients
GET	<code>/data/category_page_new_products_count</code>	Get Data By S3 Key Category Page New Products Count
GET	<code>/data/category_page_new_products_details</code>	Get Data By S3 Key Category Page New Products Details
GET	<code>/data/category_page_pricing_data</code>	Get Data By S3 Key Category Page Pricing Data
GET	<code>/data/category_page_reviews_by_user_attributes</code>	Get Data By S3 Key Category Page Reviews By User Attributes
GET	<code>/data/category_page_top_products</code>	Get Data By S3 Key Category Page Top Products
GET	<code>/data/ing_page_ing_data</code>	Get Data By S3 Key Ing Page Ing Data
GET	<code>/data/landing_page_data</code>	Get Data By S3 Key Landing Page Data
GET	<code>/data/meta_product_launch_intensity_category_month</code>	Get Data By S3 Key Meta Product Launch Intensity Category Month
GET	<code>/data/meta_product_launch_trend_category_month</code>	Get Data By S3 Key Meta Product Launch Trend Category Month
GET	<code>/data/meta_product_launch_trend_product_type_month</code>	Get Data By S3 Key Meta Product Launch Trend Product Type Month
GET	<code>/data/new_ingredient_trend_category_month</code>	Get Data By S3 Key New Ingredient Trend Category Month
GET	<code>/data/new_ingredient_trend_product_type_month</code>	Get Data By S3 Key New Ingredient Trend Product Type Month
GET	<code>/data/prod_page_ing_data</code>	Get Data By S3 Key Prod Page Ing Data

If you want to check a particular API, you can use Try it out and Execute to see what the response will look like:

**FastAPI** 0.1.0 OAS3  
/openapi.json

default

GET /data/{s3\_key} Get Data By S3 Bucket Key

GET /data/category\_page\_distinct\_brands\_products Get Data By S3 Key Category Page Distinct Brands Products

Parameters

No parameters

Try it out

Responses

Code	Description	Links
200	Successful Response	No links

Media type: application/json

Controls Accept header:

Example Value | Schema

(no example available)

GET /data/category\_page\_item\_package\_oz Get Data By S3 Key Category Page Item Package Oz

**FastAPI** 0.1.0 OAS3  
/openapi.json

default

GET /data/{s3\_key} Get Data By S3 Bucket Key

GET /data/category\_page\_distinct\_brands\_products Get Data By S3 Key Category Page Distinct Brands Products

Parameters

No parameters

Cancel

Execute

Responses

Code	Description	Links
200	Successful Response	No links

Media type: application/json

Controls Accept header:

Example Value | Schema

(no example available)

GET

/data/category\_page\_distinct\_brands\_products

Get Data By S3 Key Category Page Distinct Brands Products

Parameters

No parameters

Cancel

Execute

Clear

Responses

Curl

curl -X GET "http://127.0.0.1:8000/data/category\_page\_distinct\_brands\_products" -H "accept: application/json"

Request URL

http://127.0.0.1:8000/data/category\_page\_distinct\_brands\_products

Server response

Code

Details

200

Response body

```
{
  {
    "source": "uk",
    "category": "bath-body",
    "product_type": "after-sun",
    "distinct_brands": 27,
    "distinct_products": 46
  },
  {
    "source": "uk",
    "category": "bath-body",
    "product_type": "baby-child-toiletries",
    "distinct_brands": 27,
    "distinct_products": 195
  },
  {
    "source": "uk",
    "category": "bath-body",
    "product_type": "body-face-trimmers",
    "distinct_brands": 11,
    "distinct_products": 18
  },
  {
    "source": "uk",
    "category": "bath-body",
    "product_type": "epilators",
    "distinct_brands": 11,
    "distinct_products": 24
  }
}
```

Download

Response headers

```
content-length: 48695
content-type: application/json
date: Wed, 27 Jan 2021 03:12:11 GMT
server: uvicorn
```

Responses

```
127.0.0.1:8000/data/category_page_distinct_brands_products

[{"source": "uk", "category": "bath-body", "product_type": "after-sun", "distinct_brands": 22, "distinct_products": 46}, {"source": "uk", "category": "bath-body", "product_type": "baby-child-toiletries", "distinct_brands": 27, "distinct_products": 195}, {"source": "uk", "category": "bath-body", "product_type": "body-face-trimmers", "distinct_brands": 11, "distinct_products": 18}, {"source": "uk", "category": "bath-body", "product_type": "epilators", "distinct_brands": 11, "distinct_products": 24}, {"source": "uk", "category": "bath-body", "product_type": "expert-skin-sun-protection", "distinct_brands": 7, "distinct_products": 40}, {"source": "uk", "category": "bath-body", "product_type": "face-sun-protection", "distinct_brands": 7, "distinct_products": 24}, {"source": "uk", "category": "bath-body", "product_type": "face-wash", "distinct_brands": 5, "distinct_products": 7}, {"source": "uk", "category": "bath-body", "product_type": "fake-and-gradual-tan-all", "distinct_brands": 14, "distinct_products": 280}, {"source": "uk", "category": "bath-body", "product_type": "gifts-luxury-bath-body", "distinct_brands": 14, "distinct_products": 54}, {"source": "uk", "category": "bath-body", "product_type": "hair-lighteners", "distinct_brands": 3, "distinct_products": 3}, {"source": "uk", "category": "bath-body", "product_type": "hair-removal-cream", "distinct_brands": 6, "distinct_products": 16}, {"source": "uk", "category": "bath-body", "product_type": "ipl-hair-removal", "distinct_brands": 4, "distinct_products": 8}, {"source": "uk", "category": "bath-body", "product_type": "kids-sun-protection", "distinct_brands": 6, "distinct_products": 39}, {"source": "uk", "category": "bath-body", "product_type": "lady-shavers", "distinct_brands": 5, "distinct_products": 8}, {"source": "uk", "category": "bath-body", "product_type": "natural-toiletries", "distinct_brands": 18, "distinct_products": 52}, {"source": "uk", "category": "bath-body", "product_type": "self-tan-lotions", "distinct_brands": 7, "distinct_products": 12}, {"source": "uk", "category": "bath-body", "product_type": "self-tan-prep-and-maintain", "distinct_brands": 1, "distinct_products": 1}, {"source": "uk", "category": "bath-body", "product_type": "shaving-cream-gel", "distinct_brands": 7, "distinct_products": 12}, {"source": "uk", "category": "bath-body", "product_type": "shower-gel", "distinct_brands": 36, "distinct_products": 191}, {"source": "uk", "category": "bath-body", "product_type": "soap-hand-wash", "distinct_brands": 33, "distinct_products": 123}, {"source": "uk", "category": "bath-body", "product_type": "suncare-value-packs-bundles", "distinct_brands": 2, "distinct_products": 2}, {"source": "uk", "category": "bath-body", "product_type": "sunprotection", "distinct_brands": 20, "distinct_products": 156}, {"source": "uk", "category": "bath-body", "product_type": "talcum-powder", "distinct_brands": 3, "distinct_products": 4}, {"source": "uk", "category": "bath-body", "product_type": "tissues-wipes-sanitisers", "distinct_brands": 15, "distinct_products": 70}, {"source": "uk", "category": "bath-body", "product_type": "toiletries-bath-sets", "distinct_brands": 2, "distinct_products": 3}, {"source": "uk", "category": "bath-body", "product_type": "vegan-luxury-bath-body", "distinct_brands": 6, "distinct_products": 33}, {"source": "uk", "category": "bath-body", "product_type": "wash-bags", "distinct_brands": 7, "distinct_products": 23}, {"source": "uk", "category": "bath-body", "product_type": "wax-strips", "distinct_brands": 6, "distinct_products": 6}, {"source": "uk", "category": "bath-body", "product_type": "womens-razors", "distinct_brands": 11, "distinct_products": 43}, {"source": "uk", "category": "fragrance", "product_type": "body-mists", "distinct_brands": 17, "distinct_products": 76}, {"source": "uk", "category": "fragrance", "product_type": "cologne", "distinct_brands": 7, "distinct_products": 12}, {"source": "uk", "category": "fragrance", "product_type": "fragrance-bath-shower", "distinct_brands": 8, "distinct_products": 20}, {"source": "uk", "category": "fragrance", "product_type": "gift-wrapped-sets", "distinct_brands": 1, "distinct_products": 1}, {"source": "uk", "category": "fragrance", "product_type": "mens-aftershave", "distinct_brands": 46, "distinct_products": 374}, {"source": "uk", "category": "fragrance", "product_type": "scented-bath-shower", "distinct_brands": 10, "distinct_products": 30}, {"source": "uk", "category": "hair-products", "product_type": "bands-ties", "distinct_brands": 6, "distinct_products": 74}, {"source": "uk", "category": "hair-products", "product_type": "black-afro-and-textured-hair-curly-hair", "distinct_brands": 19, "distinct_products": 115}, {"source": "uk", "category": "hair-products", "product_type": "black-afro-and-textured-hair-straight-hair", "distinct_brands": 2, "distinct_products": 10}, {"source": "uk", "category": "hair-products", "product_type": "brushes-and-combs", "distinct_brands": 13, "distinct_products": 131}, {"source": "uk", "category": "hair-products", "product_type": "clips-grips", "distinct_brands": 8, "distinct_products": 88}, {"source": "uk", "category": "hair-products", "product_type": "coily-black-afro-and-textured-hair", "distinct_brands": 3, "distinct_products": 4}, {"source": "uk", "category": "hair-products", "product_type": "conditioner", "distinct_brands": 69, "distinct_products": 416}, {"source": "uk", "category": "hair-"}]
```