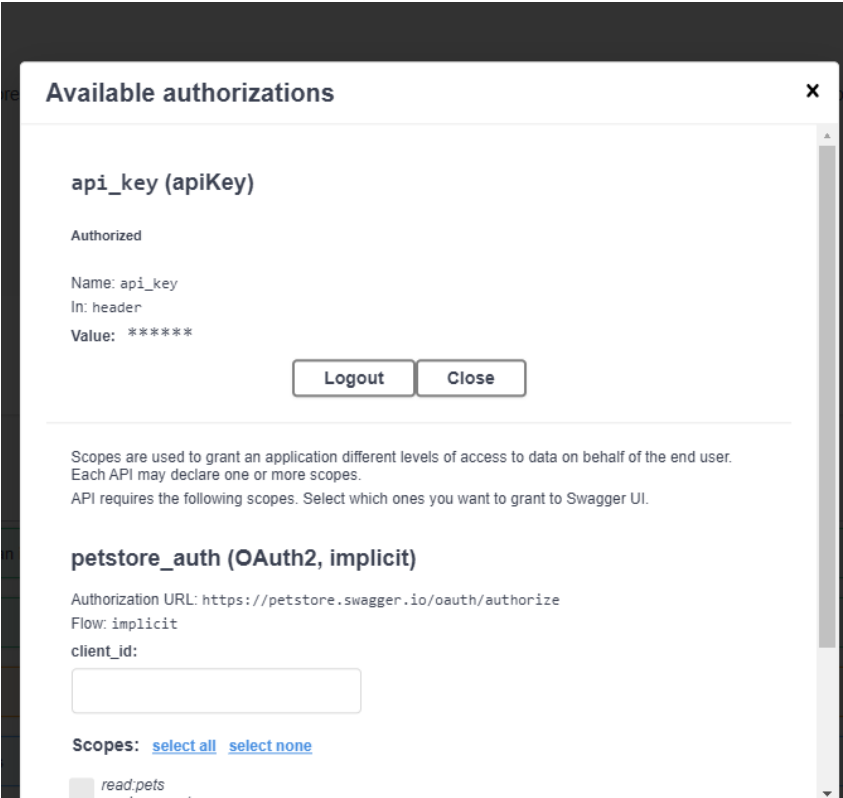
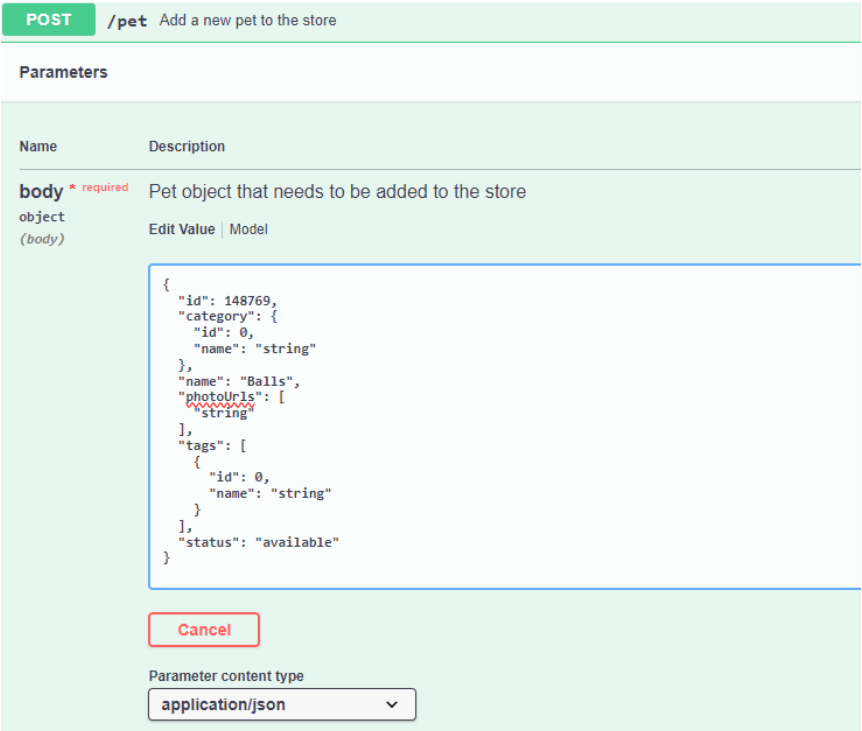


| | |
|---------------------------------|---|
| Тема Лабораторно й Работы | Lb_5.1 |
| Выполняющи й | Коваленко Кирилл ИС221 |
| Помогающий | Лавренов Александр ИС221 |
| Ход работы | <div>1. “Логинимся” в swagger</div> <div></div> <div>2. редактируем /pet</div> <div></div> |

3. Вывод при запуске кода 2

Curl

```
curl -X 'POST' \
  'https://petstore.swagger.io/v2/pet' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "id": 148769,
    "category": {
      "id": 0,
      "name": "string"
    },
    "name": "Balls",
    "photoUrls": [
      "string"
    ],
    "tags": [
      {
        "id": 0,
        "name": "string"
      }
    ],
    "status": "available"
  }'
```

Request URL

https://petstore.swagger.io/v2/pet

4. Так же получаем xml

Response body

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Pet>
  <category>
    <id>0</id>
    <name>string</name>
  </category>
  <id>148769</id>
  <name>Balls</name>
  <photoUrls>
    <photoUrl>string</photoUrl>
  </photoUrls>
  <status>available</status>
  <tags>
    <tag>
      <id>0</id>
      <name>string</name>
    </tag>
  </tags>
</Pet>
```

5. В GET pet {petID} вводим айди нашего питомца и получаем информацию о нашем API и питомце

GET
/pet/{petId}
Find pet by ID

Returns a single pet

Parameters

| Name | Description |
|---|-------------------------------|
| petId * required integer(\$int64) (path) | ID of pet to return 148769 |

Execute

Responses

Curl

```
curl -X 'GET' \
  'https://petstore.swagger.io/v2/pet/148769' \
  -H 'accept: application/json' \
  -H 'api_key: 123123Qq'
```

Request URL

```
https://petstore.swagger.io/v2/pet/148769
```

Server response

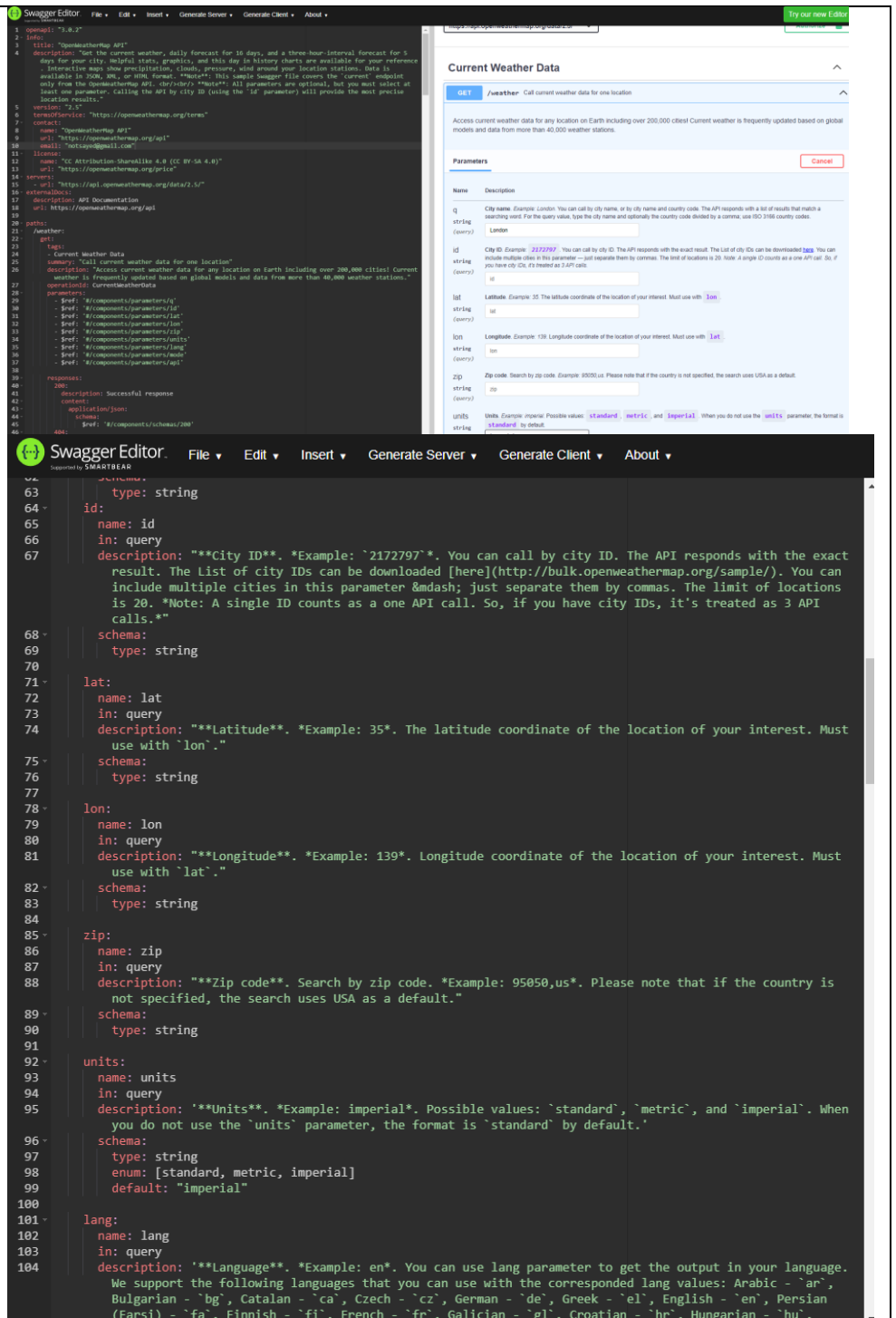
| Code | Details |
|------|--|
| 200 | Response body <pre>{ "id": 148769, "category": { "id": 0, "name": "string" }, "name": "Balls", "photoUrls": ["string"], "tags": [{ "id": 0, "name": "string" }], "status": "available" }</pre> |

6. Настраиваем Swagger editor, пишем код на YAML

Swagger Editor

File • Edit • Insert • Generate Server • Generate Client • About •

```
1 openapi: "3.0.2"
2 info:
3   title: "OpenWeatherMap API"
4   description: "Get the current weather, daily forecast for 16 days, and a three-hour-interval forecast for 5
5     days for your city. Helpful stats, graphics, and this day in history charts are available for your reference
6     . Interactive maps show precipitation, clouds, pressure, and around your location stations. Data is
7     available in JSON, XML, or HTML format. **Note:** This sample swagger file covers the 'current' endpoint
8     only from the OpenWeatherMap API. **Note:** All parameters are optional, but you must select at
9     least one parameter. Calling the API by city ID (using the 'id' parameter) will provide the most precise
10    location results."
11 version: "1.0.0"
12 servers:
13   - url: "https://api.openweathermap.org/data/2.3/"
14 paths:
15   /weather:
16     get:
17       summary: "Current Weather Data"
18       description: "Access current weather data for any location on earth (including over 200,000 cities). Current
19         weather is frequently updated based on global models and data from more than 40,000 weather stations."
20       parameters:
21         - name: q
22           in: query
23           description: "**city name**". Example: London". You can call by city name, or by city name and country
24             code. The API responds with a list of results that match a searching word. For the query value, type
25             the city name and optionally the country code divided by a comma. Use ISO 3166 country codes."
26           type: string
27         - name: id
28           in: query
29           description: "**city ID**". Example: "2127907". You can call by city ID. The API responds with the
30             exact result. The list of city IDs can be downloaded [here](http://bulk.openweathermap.org/sample/).
31             You can include multiple cities in this parameter. But only just separate them by comma. The limit of
32             location is 20. **Note:** A single ID counts as a one API call. So, if you have city IDs, it's treated
33             as 3 API calls."
34           type: string
35         - name: lat
36           in: query
37           description: "**latitude**". Example: "35". The latitude coordinate of the location of your interest."
38           type: string
39         - name: lon
40           in: query
41           description: "**longitude**". Example: "10". The longitude coordinate of the location of your interest."
42           type: string
43       responses:
44         200:
45           description: "Successful response"
46           content:
47             application/json:
48               schema:
49                 type: object
50                 properties:
51                   coord:
52                     type: object
53                     properties:
54                       lat:
55                         type: number
56                         format: float
57                       lon:
58                         type: number
59                         format: float
60                   weather:
61                     type: array
62                     items:
63                       type: object
64                       properties:
65                         main:
66                           type: number
67                           format: float
68                         weather:
69                           type: string
70                         cloud:
71                           type: number
72                           format: integer
73                         wind:
74                           type: object
75                           properties:
76                             speed:
77                               type: number
78                               format: float
79                             dir:
80                               type: string
81                             deg:
82                               type: number
83                               format: integer
84                             pressure:
85                               type: number
86                               format: integer
87                             gust:
88                               type: number
89                               format: float
90                             time:
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```



7. Введем в поле q Лондон, а ниже введем апи ключ и получим погоду в Лондоне

q

City name. Example: London. You can call by city name, or by city name and country code. The API responds with a list of city name and optionally the country code divided by a comma; use ISO 3166 country codes.

string

(query)

London

id

City ID. Example: 2172797. You can call by city ID. The API responds with the exact result. The List of city IDs can be do separate them by commas. The limit of locations is 20. Note: A single ID counts as a one API call. So, if you have city IDs, it's

string

(query)

id

lat

Latitude. Example: 35. The latitude coordinate of the location of your interest. Must use with lon.

string

(query)

lat

lon

Longitude. Example: 139. Longitude coordinate of the location of your interest. Must use with lat.

string

(query)

lon

zip

Zip code. Search by zip code. Example: 95050,us. Please note that if the country is not specified, the search uses USA as a

string

(query)

zip

units

Units. Example: imperial. Possible values: standard, metric, and imperial. When you do not use the unit

string

(query)

imperial

lang

Language. Example: en. You can use lang parameter to get the output in your language. We support the following languages

string

(query)

en

mode

Mode. Example: html. Determines the format of the response. Possible values are xml and html. If the mode paramet

string

(query)

json

API

Write there your API key from OpenWeatherMap

string

(query)

65cc3d7af05e58d0d6aed73242c949f8

Execute

Curl

```
curl -X 'GET' \
'https://api.openweathermap.org/data/2.5/weather?q=London&units=imperial&lang=en&mode=json&API=65cc3d7af05e58d0d6aed73242c949f8' \
-H 'accept: application/json'
```

Request URL

https://api.openweathermap.org/data/2.5/weather?q=London&units=imperial&lang=en&mode=json&API=65cc3d7af05e58d0d6aed73242c949f8

Server response

Code

Undocumented

Failed to fetch.
Possible Reasons:

- CORS
- Network Failure
- URL scheme must be "http" or "https" for CORS request.

Responses

Code

200

Successful response

Media type

application/json

Controls Accept header.

Example Value

```
{
  "coord": {
    "lon": 145.77,
    "lat": -16.92
  },
  "weather": [
    {
      "id": 803,
      "main": "Clouds",
      "description": "broken clouds",
      "icon": "04n"
    }
  ],
  "base": "cmc stations",
  "main": {
    "temp": 293.25,
    "pressure": 1019,
    "humidity": 83,
    "temp_min": 289.62,
    "temp_max": 295.37,
    "sea_level": 984,
    "grnd_level": 990
  },
  "dt": 1516838400
}
```

404

Not found response

Media type

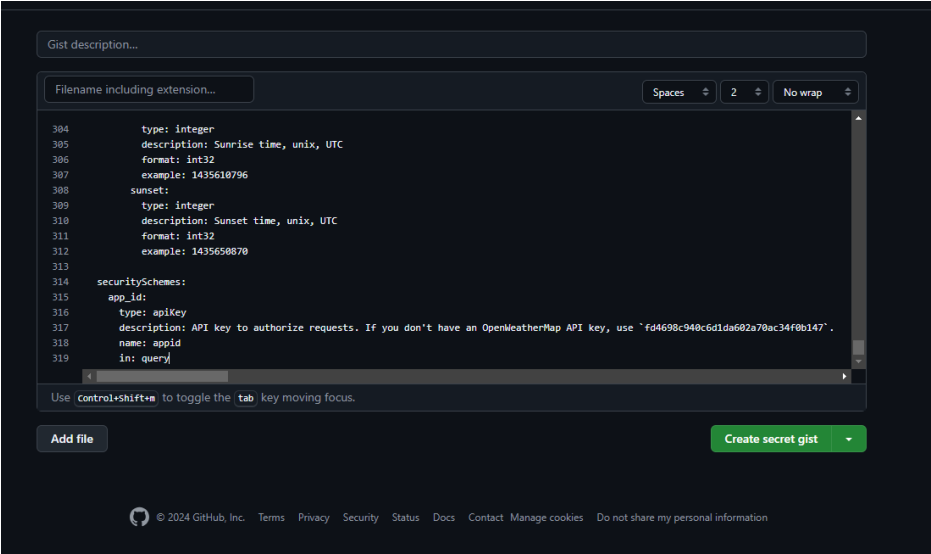
text/plain

Links

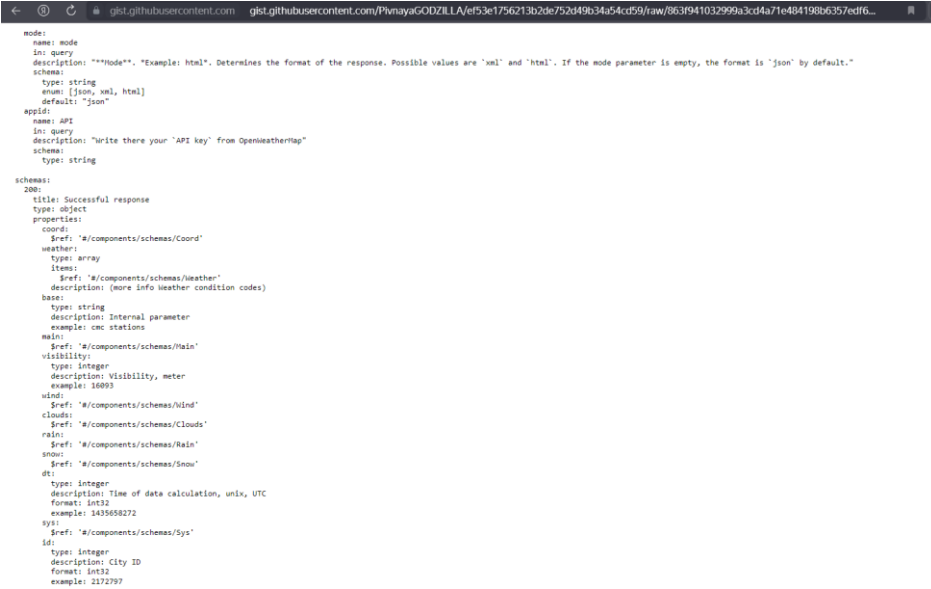
No link

No link

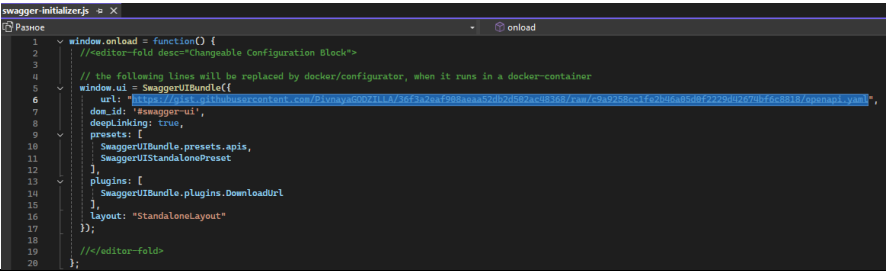
8. Копируем наш код и добавляем на github gist.



9. Нажимаем raw и копируем ссылку с чистой страницы.



10. В swagger-initializer.js меняем строку url на нашу, что мы получили в ходе загрузки yaml на github gist.



| | |
|-----------|--|
| Результат | В ходе очень трудной работы мы научились использовать swagger-editor с орепарі, научились писать код для орепарі, и попрактиковались в поиске иголки в стогe сена (найти одну строку, среди множества файлов и их строк) |
| Оценка | |

Листинг

Номер 7

```
{
  "coord": {
    "lon": 145.77,
    "lat": -16.92
  },
  "weather": [
    {
      "id": 803,
      "main": "Clouds",
      "description": "broken clouds",
      "icon": "04n"
    }
  ],
  "base": "cmc stations",
  "main": {
    "temp": 293.25,
    "pressure": 1019,
    "humidity": 83,
    "temp_min": 289.82,
    "temp_max": 295.37,
    "sea_level": 984,
    "grnd_level": 990
  },
  "visibility": 16093,
  "wind": {
    "speed": 5.1,
    "deg": 150
  },
  "clouds": {
```

```
"all": 75
},
"rain": {
  "3h": 3
},
"snow": {
  "3h": 6
},
"dt": 1435658272,
"sys": {
  "type": 1,
  "id": 8166,
  "message": 0.0166,
  "country": "AU",
  "sunrise": 1435610796,
  "sunset": 1435650870
},
"id": 2172797,
"name": "Cairns",
"cod": 200
}
```

Homep 6

openapi: "3.0.2"

info:

title: "OpenWeatherMap API"

description: "Get the current weather, daily forecast for 16 days, and a three-hour-interval forecast for 5 days for your city. Helpful stats, graphics, and this day in history charts are available for your reference. Interactive maps show precipitation, clouds, pressure, wind around your location stations. Data is available in JSON, XML, or HTML format. **Note**: This sample Swagger file covers the `current` endpoint only from the OpenWeatherMap API. **Note**: All parameters are optional, but you must select at least one parameter. Calling the API by city ID (using the `id` parameter) will provide the most precise location results."

version: "2.5"

termsOfService: "https://openweathermap.org/terms"

contact:

name: "OpenWeatherMap API"

url: "https://openweathermap.org/api"

email: "notsayed@gmail.com"

license:

name: "CC Attribution-ShareAlike 4.0 (CC BY-SA 4.0)"

url: "https://openweathermap.org/price"

servers:

- url: "https://api.openweathermap.org/data/2.5/"

externalDocs:

description: API Documentation

url: https://openweathermap.org/api

paths:

/weather:

get:

tags:

- Current Weather Data

summary: "Call current weather data for one location"

description: "Access current weather data for any location on Earth including over 200,000 cities! Current weather is frequently updated based on global models and data from more than 40,000 weather stations."

operationId: CurrentWeatherData

parameters:

- \$ref: '#/components/parameters/q'

- \$ref: '#/components/parameters/id'

- \$ref: '#/components/parameters/lat'

- \$ref: '#/components/parameters/lon'

- \$ref: '#/components/parameters/zip'

- \$ref: '#/components/parameters/units'

- \$ref: '#/components/parameters/lang'

- \$ref: '#/components/parameters/mode'

- \$ref: '#/components/parameters/api'

responses:

200:

description: Successful response

content:

application/json:

schema:

\$ref: '#/components/schemas/200'

404:

description: Not found response

content:

text/plain:

schema:

title: Weather not found

type: string

example: Not found

components:

parameters:

q:

name: q

in: query

description: "***City name**". *Example: London*. You can call by city name, or by city name and country code. The API responds with a list of results that match a searching word. For the query value, type the city name and optionally the country code divided by a comma; use ISO 3166 country codes."

schema:

type: string

id:

name: id

in: query

description: "***City ID**". *Example: `2172797`*. You can call by city ID. The API responds with the exact result. The List of city IDs can be downloaded [here](<http://bulk.openweathermap.org/sample/>).

You can include multiple cities in this parameter — just separate them by commas. The limit of locations is 20. *Note: A single ID counts as a one API call. So, if you have city IDs, it's treated as 3 API calls.*"

schema:

type: string

lat:

name: lat

in: query

description: "***Latitude**". *Example: 35*. The latitude coordinate of the location of your interest. Must use with `lon`."

schema:

type: string

lon:

name: lon

in: query

description: "***Longitude**". *Example: 139*. Longitude coordinate of the location of your interest. Must use with `lat`."

schema:

type: string

zip:

name: zip

in: query

description: "***Zip code**". Search by zip code. *Example: 95050,us*. Please note that if the country is not specified, the search uses USA as a default."

schema:

type: string

units:

name: units

in: query

description: "***Units**". *Example: imperial*. Possible values: `standard`, `metric`, and `imperial`. When you do not use the `units` parameter, the format is `standard` by default.'

schema:

type: string

enum: [standard, metric, imperial]

default: "imperial"

lang:

name: lang

in: query

description: **Language**. *Example: en*. You can use lang parameter to get the output in your language. We support the following languages that you can use with the corresponded lang values: Arabic - `ar`, Bulgarian - `bg`, Catalan - `ca`, Czech - `cz`, German - `de`, Greek - `el`, English - `en`, Persian (Farsi) - `fa`, Finnish - `fi`, French - `fr`, Galician - `gl`, Croatian - `hr`, Hungarian - `hu`, Italian - `it`, Japanese - `ja`, Korean - `kr`, Latvian - `la`, Lithuanian - `lt`, Macedonian - `mk`, Dutch - `nl`, Polish - `pl`, Portuguese - `pt`, Romanian - `ro`, Russian - `ru`, Swedish - `se`, Slovak - `sk`, Slovenian - `sl`, Spanish - `es`, Turkish - `tr`, Ukrainian - `ua`, Vietnamese - `vi`, Chinese Simplified - `zh_cn`, Chinese Traditional - `zh_tw`.'

schema:

type: string

enum: [ar, bg, ca, cz, de, el, en, fa, fi, fr, gl, hr, hu, it, ja, kr, la, lt, mk, nl, pl, pt, ro, ru, se, sk, sl, es, tr, ua, vi, zh_cn, zh_tw]

default: "en"

mode:

name: mode

in: query

description: **Mode**. *Example: html*. Determines the format of the response. Possible values are `xml` and `html`. If the mode parameter is empty, the format is `json` by default."

schema:

type: string

enum: [json, xml, html]

default: "json"

api:

name: API

in: query

description: "Write there your `API key` from OpenWeatherMap"

schema:

type: string

schemas:

200:

title: Successful response

type: object

properties:

coord:

\$ref: '#/components/schemas/Coord'

weather:

type: array

items:

\$ref: '#/components/schemas/Weather'

description: (more info Weather condition codes)

base:

type: string

description: Internal parameter

example: cmc stations

main:

\$ref: '#/components/schemas/Main'

visibility:

type: integer

description: Visibility, meter

example: 16093

wind:

\$ref: '#/components/schemas/Wind'

clouds:

\$ref: '#/components/schemas/Clouds'

rain:

\$ref: '#/components/schemas/Rain'

snow:

\$ref: '#/components/schemas/Snow'

dt:

type: integer

description: Time of data calculation, unix, UTC

format: int32

example: 1435658272

sys:

\$ref: '#/components/schemas/Sys'

id:

type: integer

description: City ID

format: int32

example: 2172797

name:

type: string

example: Cairns

cod:

type: integer

description: Internal parameter

format: int32

example: 200

Coord:

title: Coord

type: object

properties:

lon:

type: number

description: City geo location, longitude

example: 145.77000000000001

lat:

type: number

description: City geo location, latitude

example: -16.920000000000002

Weather:

title: Weather

type: object

properties:

id:

type: integer

description: Weather condition id

format: int32

example: 803

main:

type: string

description: Group of weather parameters (Rain, Snow, Extreme etc.)

example: Clouds

description:

type: string

description: Weather condition within the group

example: broken clouds

icon:

type: string

description: Weather icon id

example: 04n

Main:

title: Main

type: object

properties:

temp:

type: number

description: 'Temperature. Unit Default: Kelvin, Metric: Celsius, Imperial: Fahrenheit.'

example: 293.25

pressure:

type: integer

description: Atmospheric pressure (on the sea level, if there is no sea_level or grnd_level data),

hPa

format: int32

example: 1019

humidity:

type: integer

description: Humidity, %

format: int32

example: 83

temp_min:

type: number

description: 'Minimum temperature at the moment. This is deviation from current temp that is possible for large cities and megalopolises geographically expanded (use these parameter optionally). Unit Default: Kelvin, Metric: Celsius, Imperial: Fahrenheit.'

example: 289.81999999999999

temp_max:

type: number

description: 'Maximum temperature at the moment. This is deviation from current temp that is possible for large cities and megalopolises geographically expanded (use these parameter optionally). Unit Default: Kelvin, Metric: Celsius, Imperial: Fahrenheit.'

example: 295.37

sea_level:

type: number

description: Atmospheric pressure on the sea level, hPa

example: 984

grnd_level:

type: number

description: Atmospheric pressure on the ground level, hPa

example: 990

Wind:

title: Wind

type: object

properties:

speed:

type: number

description: 'Wind speed. Unit Default: meter/sec, Metric: meter/sec, Imperial: miles/hour.'

example: 5.0999999999999996

deg:

type: integer

description: Wind direction, degrees (meteorological)

format: int32

example: 150

Clouds:

title: Clouds

type: object

properties:

all:

type: integer

description: Cloudiness, %

format: int32

example: 75

Rain:

title: Rain

type: object

properties:

3h:

type: integer

description: Rain volume for the last 3 hours

format: int32

example: 3

Snow:

title: Snow

type: object

properties:

3h:

type: number

description: Snow volume for the last 3 hours

example: 6

Sys:

title: Sys

type: object

properties:

type:

type: integer

description: Internal parameter

format: int32

example: 1

id:

type: integer

description: Internal parameter

format: int32

example: 8166

message:

type: number

description: Internal parameter

example: 0.0166

country:

type: string

description: Country code (GB, JP etc.)

example: AU

sunrise:

type: integer

description: Sunrise time, unix, UTC

format: int32

example: 1435610796

sunset:

type: integer

description: Sunset time, unix, UTC

format: int32

example: 1435650870

securitySchemes:

app_id:

type: apiKey

description: API key to authorize requests. If you don't have an OpenWeatherMap API key, use
`fd4698c940c6d1da602a70ac34f0b147`.

name: appid

in: query