

Тема лабораторной работы	lb 5.1
Выполняющий	Кахнович Мария ИС221
Помогающий	
Ход работы	<ol style="list-style-type: none"> 1. Переходим по ссылке Swagger Pet Store Demo 2. Для работы нужно авторизоваться 3. Разворачиваем точку Pet и нажимаем на кнопку Try it out для редактирования <div data-bbox="938 642 1465 857" data-label="Image"> </div> 4. Заменяем значение id, value и нажимаем execute <div data-bbox="841 952 1366 1184" data-label="Image"> </div> 5. Swagger UI отправляет запрос и показывает отправленный curl <div data-bbox="938 1279 1465 1753" data-label="Image"> </div> 6. В разделе ответы Swagger UI получаем ответ сервера

Response body

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Pet>
  <category>
    <id>0</id>
    <name>Puppy</name>
  </category>
  <id>2009005</id>
  <name>doggie</name>
  <photoUrls>
    <photoUrl>string</photoUrl>
  </photoUrls>
  <status>available</status>
  <tags>
    <tag>
      <id>0</id>
      <name>string</name>
    </tag>
  </tags>
</Pet>
```

Response headers

7. Отредактируем некоторые значение в написанной спецификации OpenAPI

The screenshot shows the Swagger Editor interface. The left pane contains the OpenAPI specification code, and the right pane shows the visual representation of the API. The 'pet' endpoint is highlighted, showing its parameters and response body.

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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 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. This sample Swagger file covers the 'current' endpoint only from the OpenWeatherMap API. 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."

5 version: "2.5"

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

7 contact:

8 name: "OpenWeatherMap API"

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

10 email: "some_email@mail.com"

11 license:

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

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

14 servers:

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

16 paths:

17 /weather:

18 get:

19 tags:

20 - Current Weather Data

21 summary: "Call current weather data for one location."

22 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."

23 operationId: CurrentWeatherData

24 parameters:

25 - name: q

26 in: query

27 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

28 schema:

29 type: string

30 - name: id

31 in: query

32 description: "City ID", "Example: '2127987'". 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/)(http://bulk.openweathermap.org/sample/). You can include multiple cities in this parameter. Initially, 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."

33 schema:

34 type: string

35 - name: lat

36 in: query

37 description: "Latitude", "Example: 35". The latitude coordinate of the location of your interest. Must use with 'lon.'"

38 schema:

39 type: string

40 - name: lon

41 in: query

42 description: "Longitude", "Example: 130". Longitude coordinate of the location of your interest. Must use with 'lat.'"

43 schema:

44 type: string

45

46 format: int32

47 example: 0

48

49 title: Snow

50 type: object

51 properties:

52 -

53 type: number

54 description: Snow volume for the last 3 hours

55 example: 0

56

57 title: Sys

58 type: object

59 properties:

60 -

61 type: integer

62 description: Internal parameter

63 format: int32

64 example: 1

65

66 type: integer

67 description: Internal parameter

68 format: int32

69 example: 8166

70

71 message:

72 type: number

73 description: Internal parameter

74 example: 0.4966

75

76 country:

77 type: string

78 description: Country code (ISO 3166 etc.)

79 example: AU

80

81 sunrise:

82 type: integer

83 description: Sunrise time, unix, UTC

84 format: int32

85 example: 1435618796

86

87 sunset:

88 type: integer

89 description: Sunset time, unix, UTC

90 format: int32

91 example: 1435618796

Errors

Hide

Structural error at /weather: should have required property 'paths' /info/properties: paths /name: /title: /

Swagger Petstore - OpenAPI 3.0

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.

Terms of service

OpenWeatherMap API - Website

Send email to OpenWeatherMap API

CC Attribution-ShareAlike 4.0 (CC BY-SA 4.0)

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36 in: query

37 description: "Latitude", "Example: 35". The latitude coordinate of the location of your interest. Must use with 'lon.'"

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39 type: string

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41 in: query

42 description: "Longitude", "Example: 130". Longitude coordinate of the location of your interest. Must use with 'lat.'"

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44 type: string

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46 format: int32

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51 properties:

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58 type: object

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64 example: 1

65

66 type: integer

67 description: Internal parameter

68 format: int32

69 example: 8166

70

71 message:

72 type: number

73 description: Internal parameter

74 example: 0.4966

75

76 country:

77 type: string

78 description: Country code (ISO 3166 etc.)

79 example: AU

80

81 sunrise:

82 type: integer

83 description: Sunrise time, unix, UTC

84 format: int32

85 example: 1435618796

86

87 sunset:

88 type: integer

89 description: Sunset time, unix, UTC

90 format: int32

91 example: 1435618796

Current Weather Data

GET /weather Call current weather data for one location.

Access current weather data for any location on Earth including frequently updated based on global models and data from

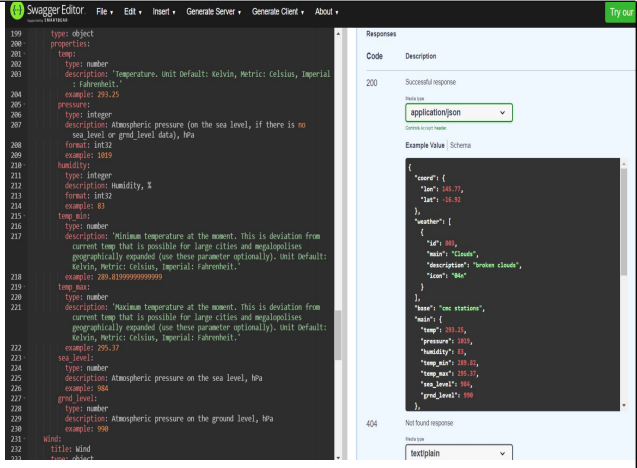
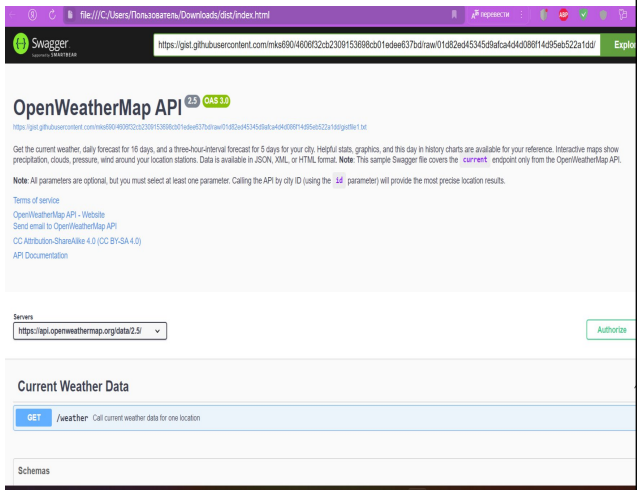
Parameters

q City name Example: London. You can call by city name with a list of results that match a searching word. The country code divided by a comma; use ISO 3166 country codes

id City ID Example: 2127987. You can call by city ID. The API responds with the exact result. The list of city IDs can be downloaded here. You can include multiple cities in this parameter. Initially, just separate them by commas. The limit of locations is 20. Note: A single ID counts as 3 API calls.

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

lon Longitude Example: 130. Longitude coordinate of the location of your interest. Must use with 'lat.'

	<div></div> <h2>8. Наполняем Swagger</h2> <div></div>
Результат	<p>После проделанной мною работой я</p> <ol style="list-style-type: none">1. Узнала Swagger лучше при помощи Petstore Demo2. Научилась редактировать файл при помощи спецификации OPeNAPI

Листинг

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."

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contact:

name: "OpenWeatherMap API"

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email: "some_email@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/

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'

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"

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

externalDocs:

description: API Documentation

url: <https://openweathermap.org/api>