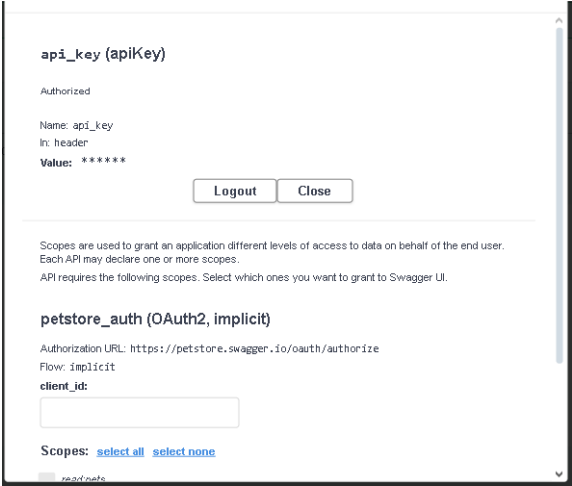
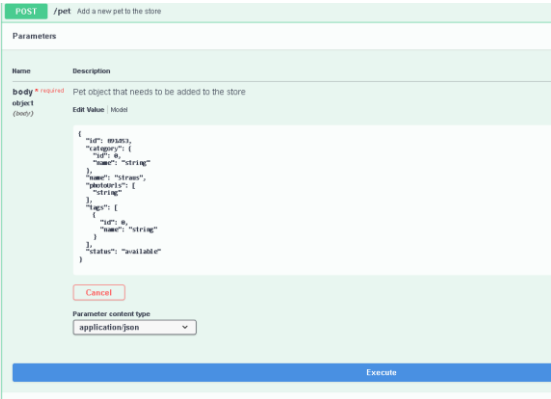
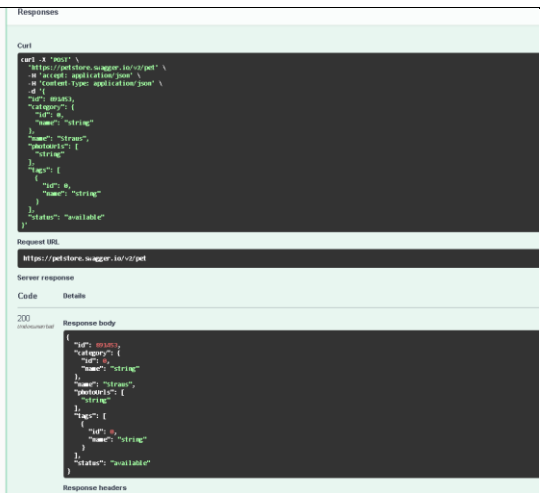
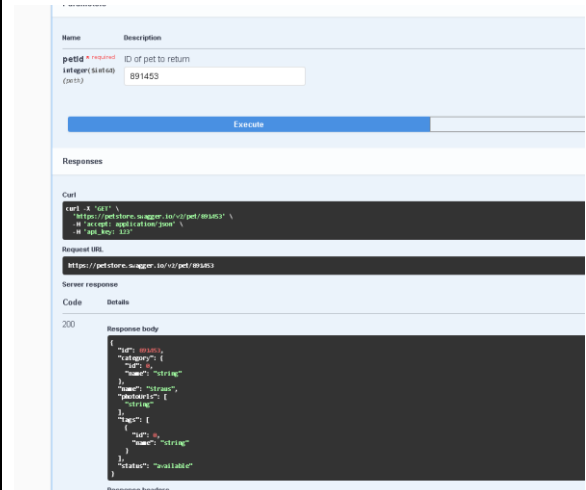


Тема лабораторной работы	Lb_5.1
Выполняющий	Шматов Иван
Помогающий	Плотников Дмитрий
Ход работы	<div>1. Авторизуемся в Swagger</div> <div></div> <div>2. Изменяем тело запроса</div> <div></div> <div>3. Отправляем запрос и получаем curl</div>

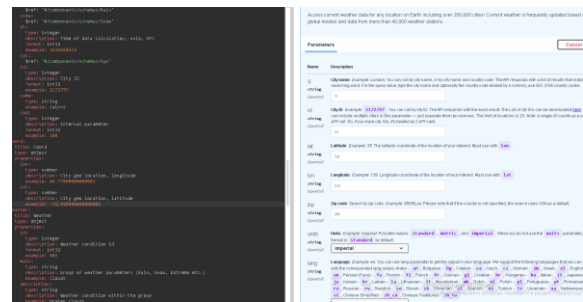


4. Ввели айди питомца и выполнил запрос

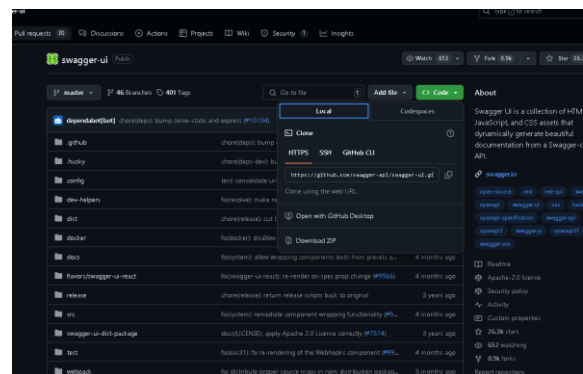


5. Отредактировали спецификацию API в Swagger Editor (При попытке запроса не возвращает необходимые данные в

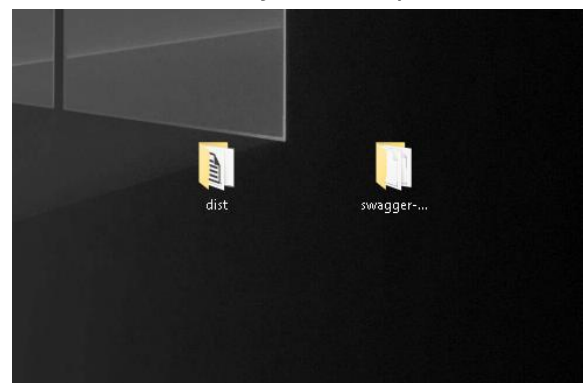
связи с проблемами работы
(OpenWeather)



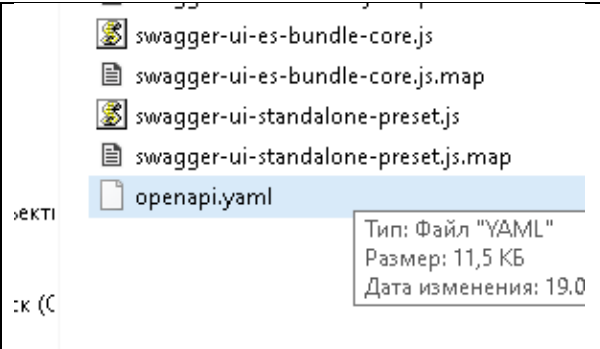
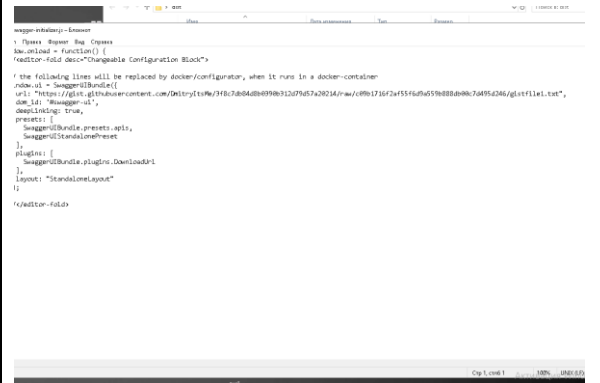
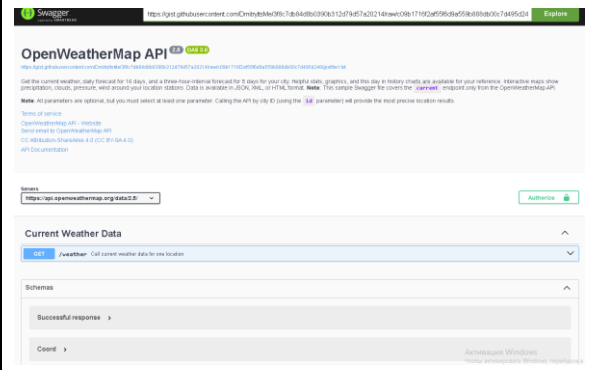
6. Перешли на Swagger UI GitHub
project и скачали архив на компьютер



7. Извлекли папку dist из архива



8. Переместили файл спецификации в
папку dist

	<div data-bbox="798 190 1401 537"></div> <p data-bbox="798 548 1401 683">9. В файле изменили ссылку, которую получили загрузив на GitHub Gis спецификацию OpenWeather</p> <div data-bbox="798 683 1401 1064"></div> <p data-bbox="798 1075 1401 1108">10. Открыли html файл</p> <div data-bbox="798 1108 1401 1476"></div>
<p data-bbox="194 1476 798 1512">Результат</p>	<p data-bbox="798 1476 1401 1512">В ходе работы:</p> <ol data-bbox="798 1512 1401 1789" style="list-style-type: none"><li data-bbox="798 1512 1401 1556">1. Научились работать со спецификациями в Swagger Editor<li data-bbox="798 1556 1401 1601">2. Научились пользоваться Swagger Editor<li data-bbox="798 1601 1401 1646">3. Научились создавать спецификации<li data-bbox="798 1646 1401 1789">4. Улучшили навыки создания запросов

Листинг из Swagger Editor

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/appid'

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"

appid:

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