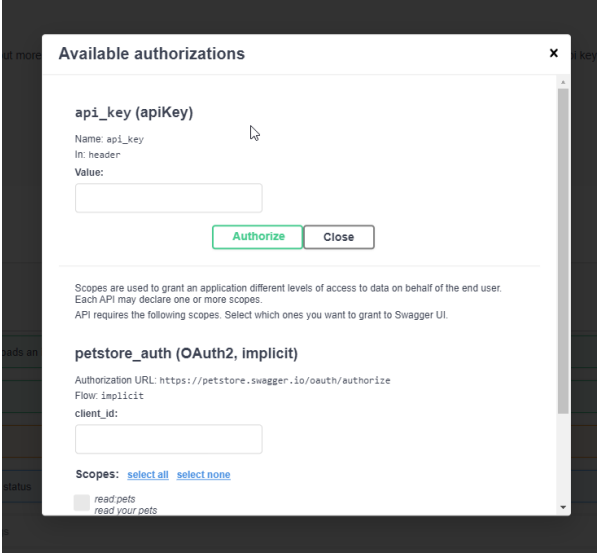
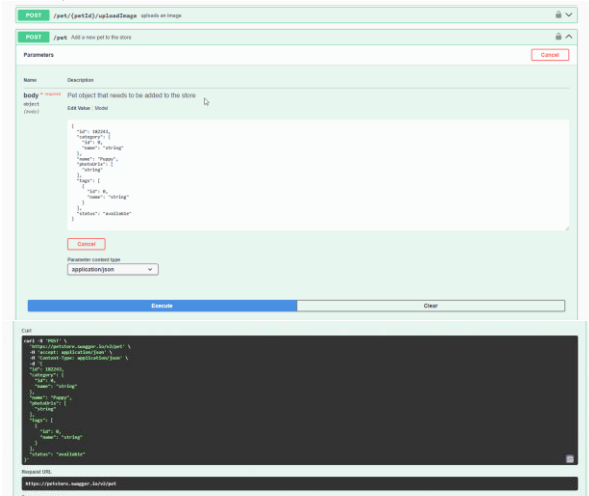
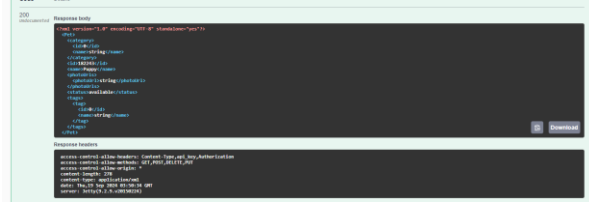
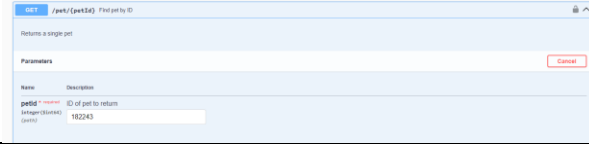
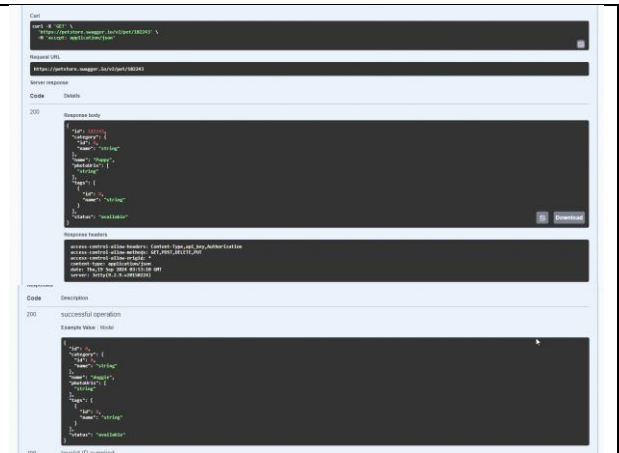
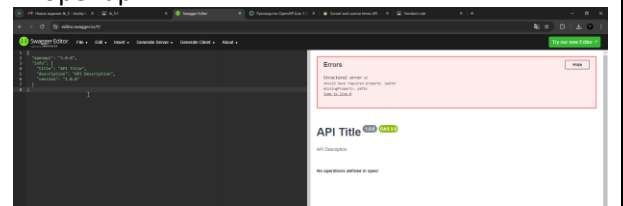


Тема лабораторной работы	lb_5.1
Выполняющий	Ходаев Лев ис221
Помогающий	Стоцкий Владислав ис221
Ход работы	<p>1) Авторизация в Swagger</p>  <p>2) работаем с pet, называем Purru и получаем ответ в Curl</p>  <p>3) ответ в xml</p>  <p>4) petid</p> 

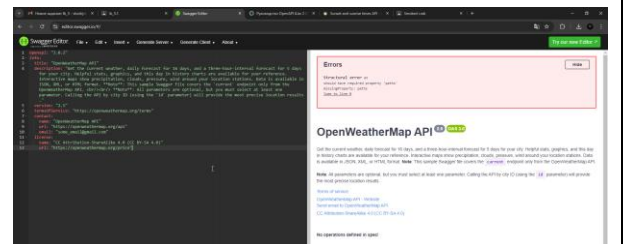


5) редактируем файл спецификации OpenAPI

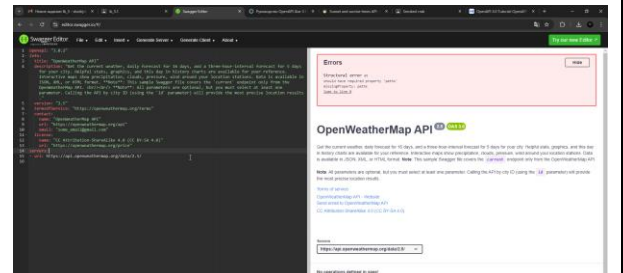
1. openapi



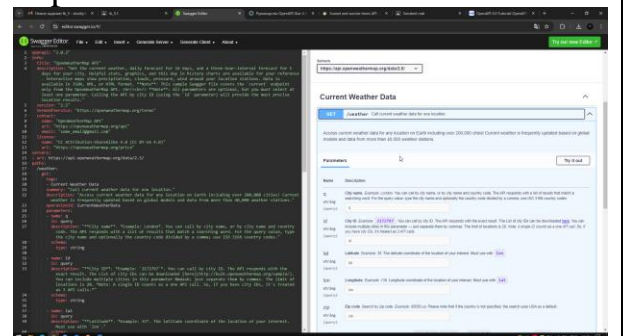
2. info



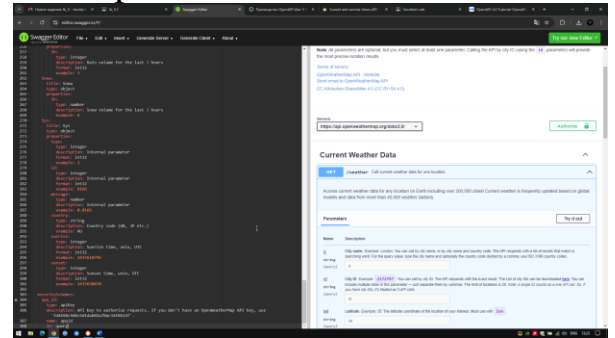
3. servers



4. paths



5. components



6. externalDocs

```
306      description: API key to authorize requests
307      name: appid
308      in: query
309      externalDocs:
310        description: API Documentation
311        url: https://openweathermap.org/api
```

the most precise location results.

[Terms of service](#)

[OpenWeatherMap API - Website](#)

[Send email to OpenWeatherMap API](#)

[CC Attribution-ShareAlike 4.0 \(CC BY-SA 4.0\)](#)

[API Documentation](#)

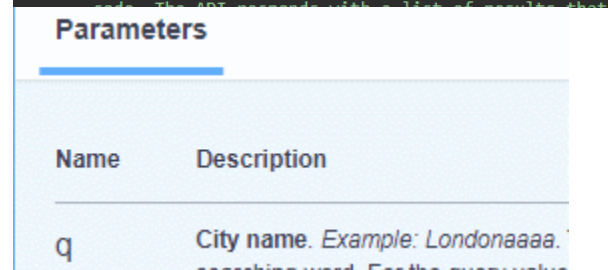
7) изменения в info

```
title: "OpenWeatherMap API"
description: "Get the current weather, daily forecast
days for your city. Helpful stats, graphics, and th
. Interactive maps show precipitation, clouds, pres
available in JSON, XML, or HTML format. **Note*: T
only from the OpenWeatherMap API. <br/><br/> **Note*
least one parameter. Calling the API by city ID (us
location results. aaaaaaaaaaaaaaaaaaaaaaaaaa."
version: "2.5"
```

Note: All parameters are optional, but you must select at least one parameter. C the most precise location results. aaaaaaaaaaaaaaaaaaaaaaaaaa.

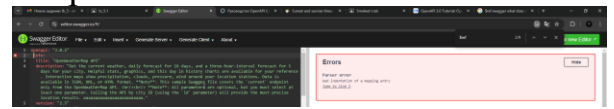
8) изменения в parameters

```
parameters:
  q:
    name: q
    in: query
    description: "**City name**. *Example: Londonaaaa*"
```

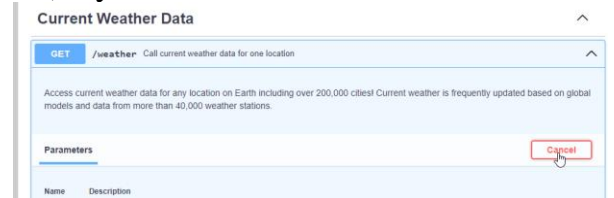


9) указатель \$ref служит для ссылки на другие вещи, такие как сайты и тд.

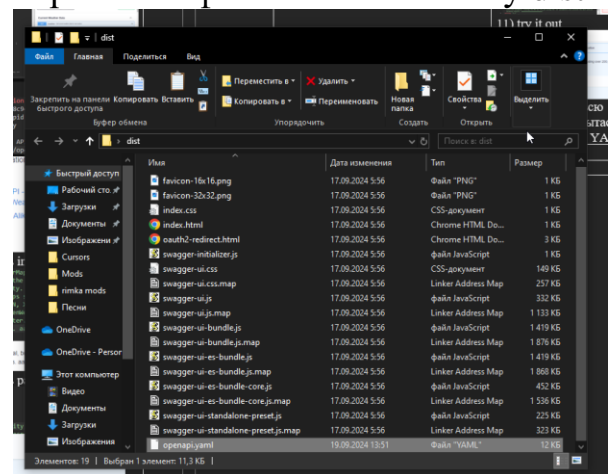
10) добавление пробела и его исправление



11) try it out



12) сохраняем всю работу в YAML, скачиваем zip, вытаскиваем dist и переносим файл YAML в папку dist



Результат

В ходе данной лабораторной работы мы научились работать с редактором Swagger, однако не вышло выполнить последние 2 шага т.к. в файле index.html нет нужной строчки кода, а также не открываются сайты для просмотра файла.

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
```

	<p>HTML format. **Note**: This sample Swagger file covers the `current` endpoint only from the OpenWeatherMap API.

</p> <p>**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.</p> <p>aaaaaaaaaaaaaaaaaaaaaaaaaaaaa."</p> <p>version: "2.5"</p> <p>termsOfService:</p> <p>"https://openweathermap.org/terms"</p> <p>contact:</p> <p>name: "OpenWeatherMap API"</p> <p>url:</p> <p>"https://openweathermap.org/api"</p> <p>email: "some_email@gmail.com"</p> <p>license:</p> <p>name: "CC Attribution-ShareAlike 4.0 (CC BY-SA 4.0)"</p> <p>url:</p> <p>"https://openweathermap.org/price"</p> <p>servers:</p> <p>- url:</p> <p>https://api.openweathermap.org/data/2.5/</p> <p>paths:</p> <p>/weather:</p> <p>get:</p> <p>tags:</p> <p>- Current Weather Data</p> <p>summary: "Call current weather data for one location"</p> <p>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."</p> <p>operationId: CurrentWeatherData</p> <p>parameters:</p> <p>- \$ref:</p> <p>'#/components/parameters/q'</p>
--	---

	<ul style="list-style-type: none"> - \$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' <p>responses:</p> <p>200:</p> <p>description: Successful response</p> <p>content:</p> <p>application/json:</p> <p>schema:</p> <p>\$ref: '#/components/schemas/200'</p> <p>404:</p> <p>description: Not found response</p> <p>content:</p> <p>text/plain:</p> <p>schema:</p> <p>title: Weather not found</p> <p>type: string</p> <p>example: Not found</p> <p>components:</p> <p>parameters:</p> <p>q:</p> <p>name: q</p> <p>in: query</p> <p>description: "***City name**.</p> <p>*Example: Londonaaaa*. 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</p>
--	--

	<p>divided by a comma; use ISO 3166 country codes."</p> <p>schema: type: string</p> <p>id: name: id in: query description: "***City ID**.</p> <p>*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 &mdash; 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.*"</p> <p>schema: type: string</p> <p>lat: name: lat in: query description: "***Latitude**.</p> <p>*Example: 35*. The latitude coordinate of the location of your interest. Must use with `lon`."</p> <p>schema: type: string</p> <p>lon: name: lon in: query description: "***Longitude**.</p> <p>*Example: 139*. Longitude coordinate of the location of your interest. Must use with `lat`."</p> <p>schema: type: string</p> <p>zip: name: zip</p>
--	---

	<p>in: query</p> <p>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."</p> <p>schema:</p> <p>type: string</p> <p>units:</p> <p>name: units</p> <p>in: query</p> <p>description: "***Units**". *Example: imperial*. Possible values: `standard`, `metric`, and `imperial`. When you do not use the `units` parameter, the format is `standard` by default.'</p> <p>schema:</p> <p>type: string</p> <p>enum: [standard, metric, imperial]</p> <p>default: "imperial"</p> <p>lang:</p> <p>name: lang</p> <p>in: query</p> <p>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`,</p>
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	<p>Chinese Simplified - `zh_cn`, Chinese Traditional - `zh_tw`.'</p> <p>schema:</p> <p>type: string</p> <p>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]</p> <p>default: "en"</p> <p>mode:</p> <p>name: mode</p> <p>in: query</p> <p>description: "***Mode**.</p> <p>*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."</p> <p>schema:</p> <p>type: string</p> <p>enum: [json, xml, html]</p> <p>default: "json"</p> <p>schemas:</p> <p>200:</p> <p>title: Successful response</p> <p>type: object</p> <p>properties:</p> <p>coord:</p> <p>\$ref: '#/components/schemas/Coord'</p> <p>weather:</p> <p>type: array</p> <p>items:</p> <p>\$ref: '#/components/schemas/Weather'</p> <p>description: (more info Weather condition codes)</p> <p>base:</p> <p>type: string</p> <p>description: Internal parameter</p> <p>example: cmc stations</p> <p>main:</p>
--	--

	<p>\$ref: '#/components/schemas/Main'</p> <p>visibility: type: integer description: Visibility, meter example: 16093</p> <p>wind: \$ref: '#/components/schemas/Wind'</p> <p>clouds: \$ref: '#/components/schemas/Clouds'</p> <p>rain: \$ref: '#/components/schemas/Rain'</p> <p>snow: \$ref: '#/components/schemas/Snow'</p> <p>dt: type: integer description: Time of data calculation, unix, UTC format: int32 example: 1435658272</p> <p>sys: \$ref: '#/components/schemas/Sys'</p> <p>id: type: integer description: City ID format: int32 example: 2172797</p> <p>name: type: string example: Cairns</p> <p>cod: type: integer description: Internal parameter format: int32 example: 200</p> <p>Coord: title: Coord type: object properties: lon:</p>
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	<p> type: number description: City geo location, longitude example: 145.77000000000001 lat: </p> <p> type: number description: City geo location, latitude example: -16.920000000000002 </p> <p> Weather: title: Weather type: object properties: </p> <p> id: type: integer description: Weather condition id format: int32 example: 803 </p> <p> main: type: string description: Group of weather parameters (Rain, Snow, Extreme etc.) example: Clouds </p> <p> description: type: string description: Weather condition within the group example: broken clouds </p> <p> icon: type: string description: Weather icon id example: 04n </p> <p> Main: title: Main type: object properties: </p> <p> temp: type: number description: 'Temperature. Unit Default: Kelvin, Metric: Celsius, Imperial: Fahrenheit.' example: 293.25 </p> <p> pressure: type: integer </p>
--	--

	<p>description: Atmospheric pressure (on the sea level, if there is no sea_level or grnd_level data), hPa</p> <p>format: int32</p> <p>example: 1019</p> <p>humidity:</p> <p>type: integer</p> <p>description: Humidity, %</p> <p>format: int32</p> <p>example: 83</p> <p>temp_min:</p> <p>type: number</p> <p>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.'</p> <p>example: 289.81999999999999</p> <p>temp_max:</p> <p>type: number</p> <p>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.'</p> <p>example: 295.37</p> <p>sea_level:</p> <p>type: number</p> <p>description: Atmospheric pressure on the sea level, hPa</p> <p>example: 984</p> <p>grnd_level:</p> <p>type: number</p> <p>description: Atmospheric pressure on the ground level, hPa</p> <p>example: 990</p> <p>Wind:</p> <p>title: Wind</p> <p>type: object</p>
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	<p>properties:</p> <p>speed:</p> <p>type: number</p> <p>description: 'Wind speed. Unit Default: meter/sec, Metric: meter/sec, Imperial: miles/hour.'</p> <p>example: 5.0999999999999996</p> <p>deg:</p> <p>type: integer</p> <p>description: Wind direction, degrees (meteorological)</p> <p>format: int32</p> <p>example: 150</p> <p>Clouds:</p> <p>title: Clouds</p> <p>type: object</p> <p>properties:</p> <p>all:</p> <p>type: integer</p> <p>description: Cloudiness, %</p> <p>format: int32</p> <p>example: 75</p> <p>Rain:</p> <p>title: Rain</p> <p>type: object</p> <p>properties:</p> <p>3h:</p> <p>type: integer</p> <p>description: Rain volume for the last 3 hours</p> <p>format: int32</p> <p>example: 3</p> <p>Snow:</p> <p>title: Snow</p> <p>type: object</p> <p>properties:</p> <p>3h:</p> <p>type: number</p> <p>description: Snow volume for the last 3 hours</p> <p>example: 6</p> <p>Sys:</p> <p>title: Sys</p> <p>type: object</p> <p>properties:</p>
--	---

	<p>type: type: integer description: Internal parameter format: int32 example: 1</p> <p>id: type: integer description: Internal parameter format: int32 example: 8166</p> <p>message: type: number description: Internal parameter example: 0.0166</p> <p>country: type: string description: Country code (GB, JP etc.) example: AU</p> <p>sunrise: type: integer description: Sunrise time, unix, UTC format: int32 example: 1435610796</p> <p>sunset: type: integer description: Sunset time, unix, UTC format: int32 example: 1435650870</p> <p>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</p> <p>externalDocs: description: API Documentation url: https://openweathermap.org/api</p>
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