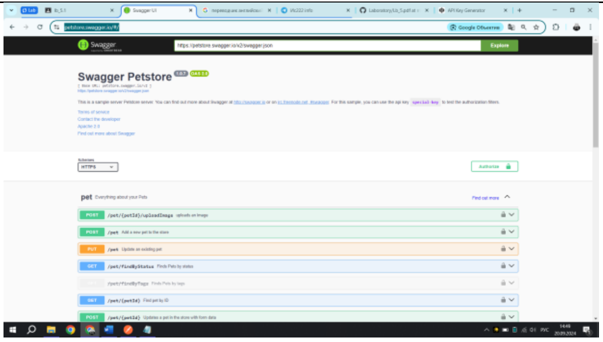
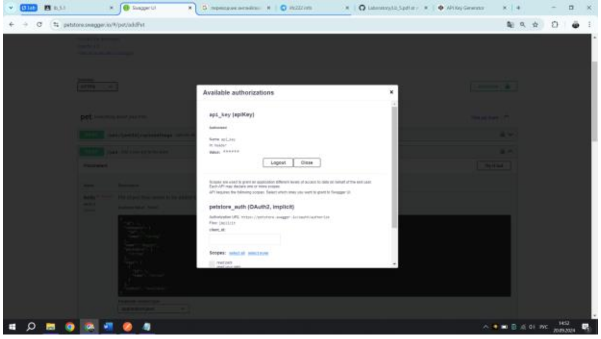
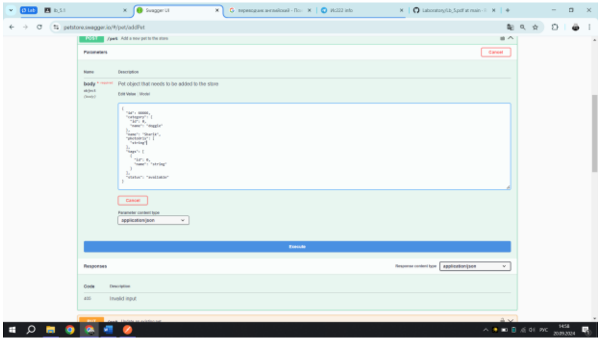
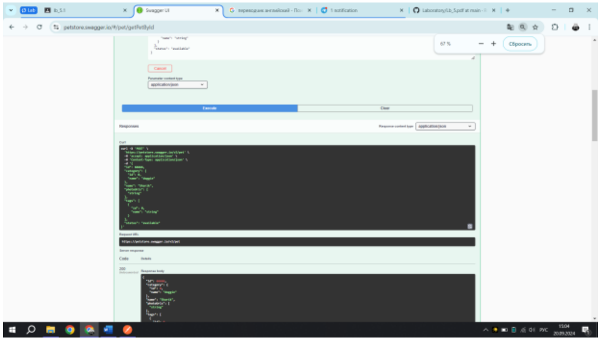
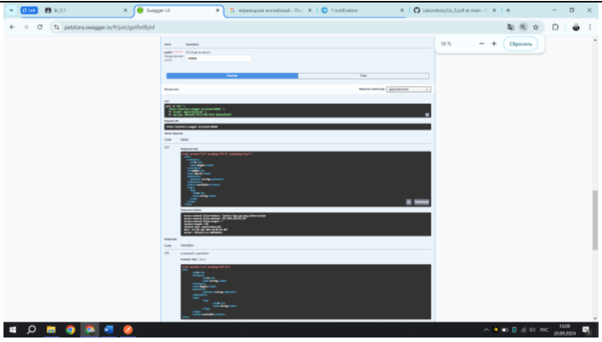
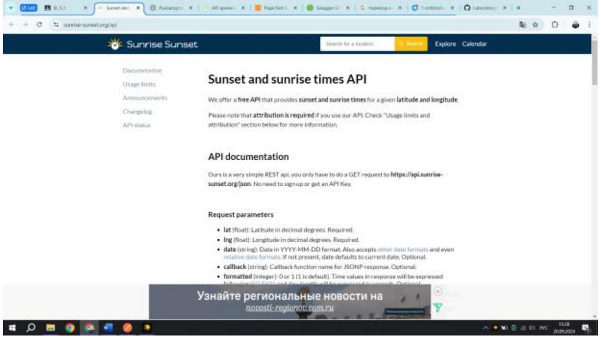
Тема лабораторной работы	Lb_5_1
Выполняющий	Войтенко Данил
Группа	ИС 222
Ход работы	 1.Зашел на сайт https://petstore.swagger.io/#/  2.Зашел авторизовался на api key 0b51ed22-9372-4f02-9f21-168a2ad5a67d  3.Изменил данные в pet на свои id 66666 и имя на Sharik.  4.Запустил и получил curl но немного в другом виде (листинг 1)



5.Перешел на /pety/{petId} чтобы увидеть ответ в писал id питомца и вывел ответ в Response content type xml. (Листинг 2)



Sunset and sunrise times API

We offer a **free API** that provides **sunset and sunrise times** for a given **latitude and longitude**.

Please note that **attribution is required** if you use our API. Check "Usage limits and attribution" section below for more information.

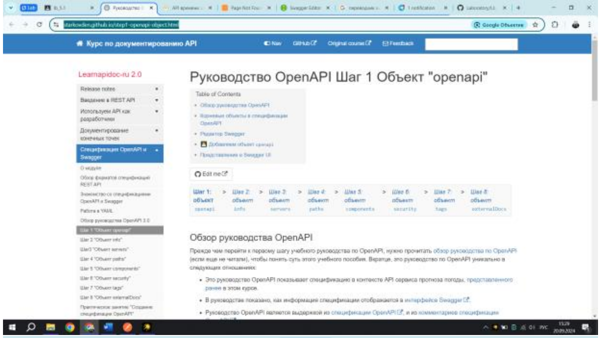
API documentation

Ours is a very simple REST api, you only have to do a GET request to **https://api.sunrise-sunset.org/json**. No need to sign up or get an API Key.

Request parameters

- **lat** (float): Latitude in decimal degrees. Required.
- **lng** (float): Longitude in decimal degrees. Required.
- **date** (string): Date in YYYY-MM-DD format. Also accepts other date formats and even relative date formats. If not present, date defaults to current date. Optional.
- **callback** (string): Callback function name for JSONP response. Optional.
- **formatted** (integer): 0 or 1 (1 is default). Time values in response will be expressed

6.Переходим на сайт https://sunrise-sunset.org/api и изучаем



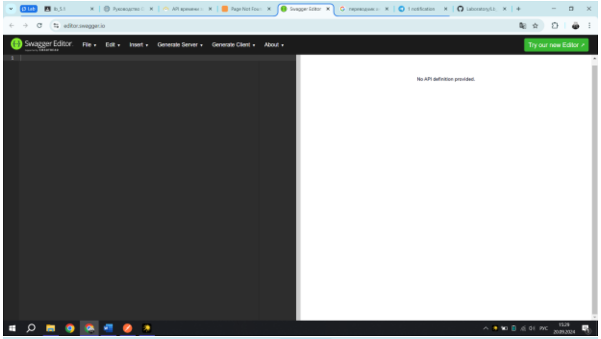
Руководство OpenAPI Шаг 1 Объект "openapi"

Обзор руководства OpenAPI

Прежде чем перейти к первому шагу учебного руководства по OpenAPI, нужно прочитать обзор руководства по OpenAPI (если еще не читали), чтобы понять суть этого учебного пособия. Вкратце, это руководство по OpenAPI уникально в следующих отношениях:

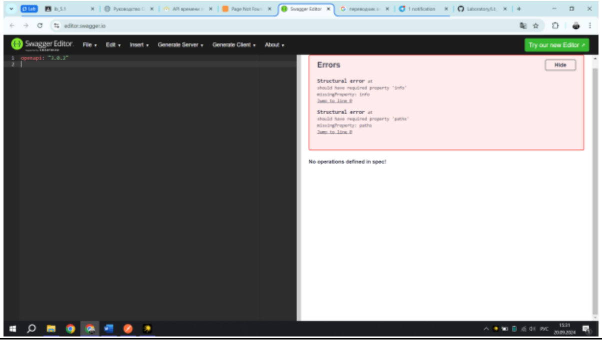
- Это руководство OpenAPI показывает спецификацию в контексте API сервиса прогноза погоды, представленного ранее в этом курсе.
- В руководстве показано, как информация спецификации отображается в интерфейсе Swagger.
- Руководство OpenAPI является выдержкой из спецификации OpenAPI, и из комментариев спецификации

starkovden.github.io/step1-openapi-object.html
Курс по документированию API
Nav
GitHub
Original course
Feedback
Learnapidoc-ru 2.0
Release notes
Введение в REST API
Используем API как разработчики
Документирование конечных точек
Спецификации OpenAPI и Swagger
О модуле
Обзор форматов спецификаций REST API
Знакомство со спецификациями OpenAPI и Swagger
Работа с YAML
Обзор руководства OpenAPI 3.0
Шаг 1 "Объект openapi"
Шаг 2 "Объект info"
Шаг3 "Объект servers"
Шаг 4 "Объект paths"
Шаг 5 "Объект components"
Шаг 6 "Объект security"
Шаг 7 "Объект tags"
Шаг 8 "Объект externalDocs"
Практическое занятие "Создание спецификации OpenAPI"
Table of Contents
Обзор руководства OpenAPI
Корневые объекты в спецификации OpenAPI
Редактор Swagger
Добавление объекта openapi
Представления в Swagger UI
Edit me
Шаг 1: объект openapi
Шаг 2: объект info
Шаг 3: объект servers
Шаг 4: объект paths
Шаг 5: объект components
Шаг 6: объект security
Шаг 7: объект tags
Шаг 8: объект externalDocs



No API definition provided.

editor.swagger.io
Swagger Editor
File
Edit
Insert
Generate Server
Generate Client
About
Try our new Editor



```
openapi: "3.0.2"
```

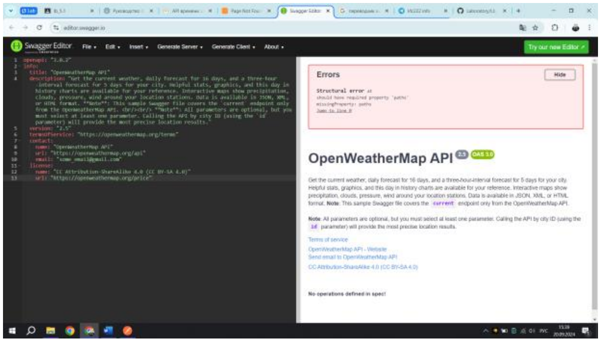
Errors

Structural error at
should have required property 'info'
missingProperty: info
Jump to line 0

Structural error at
should have required property 'paths'
missingProperty: paths
Jump to line 0

No operations defined in spec!

7. Переходим на сайт https://starkovden.github.io/step1-openapi-object.html и делаем все что там написано



```
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. <br/><br/> **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: "some_email@gmail.com"
  license:
    name: "CC Attribution-ShareAlike 4.0 (CC BY-SA 4.0)"
    url: "https://openweathermap.org/price"
```

Errors

```
Structural error at
should have required property 'paths'
missingProperty: paths
Jump to line 0
```

OpenWeatherMap API 2.5 OAS 3.0

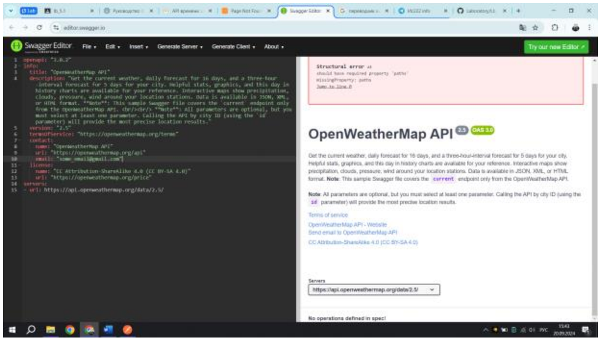
Get the current weather, daily forecast for 16 days, and a three-hour-interval forecast for 5 days for your city. Helpful stats, graphics, and this day in history charts are available for your reference. Interactive maps show precipitation, clouds, pressure, wind around your location stations. Data is 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)

No operations defined in spec!

8.Далее добавляем в него Листинг 3 здесь написана краткая информация о сайте и инструкция по его использованию.



```
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. <br/><br/> **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: "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/
```

```
Structural error at
should have required property 'paths'
missingProperty: paths
Jump to line 0
```

OpenWeatherMap API 2.5 OAS 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.

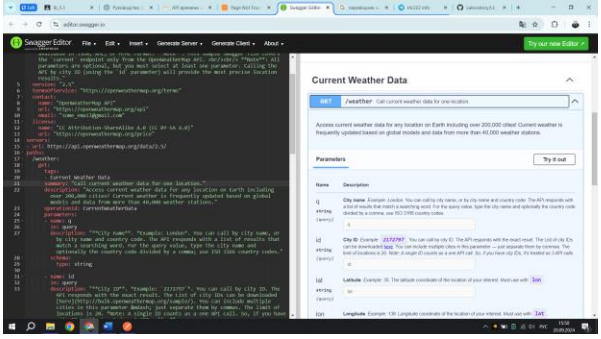
Note: All parameters are optional, but you must select at least one parameter. Calling the API by city ID (using the `id` parameter) will provide the most precise location results.

Terms of service
OpenWeatherMap API - Website
Send email to OpenWeatherMap API
CC Attribution-ShareAlike 4.0 (CC BY-SA 4.0)

Servers
https://api.openweathermap.org/data/2.5/

No operations defined in spec!

9.Добавляем URL адрес сервера



```
      the `current` endpoint only from the OpenWeatherMap API. <br/><br/> **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: "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:
      - 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; see ISO 3166 country codes."
        schema:
          type: string

      - 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 &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
```

Current Weather Data

GET /weather Call current weather data for one location.

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.

Parameters

Name Description

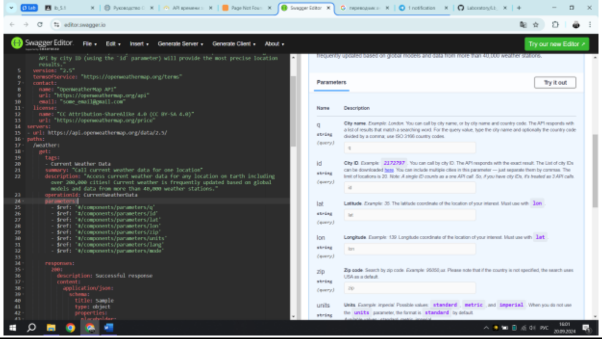
q string (query) — **City name**. *Example: London*. You can call by city name, or by city name and country code. The API responds with a list of results that match a searching word. For the query value, type the city name and optionally the country code divided by a comma; use ISO 3166 country codes.

id string (query) — **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. 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.*

lat string (query) — **Latitude**. *Example: 35*. The latitude coordinate of the location of your interest. Must use with `lon`.

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

10.Добавляем конечную точку path с объектами их методами и параметрами. Листинг 4



```
      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: "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:
                title: Sample
                type: object
                properties:
```

frequently updated based on global models and data from more than 40,000 weather stations.

Parameters

Name Description

q string (query) — **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.

id string (query) — **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. 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.*

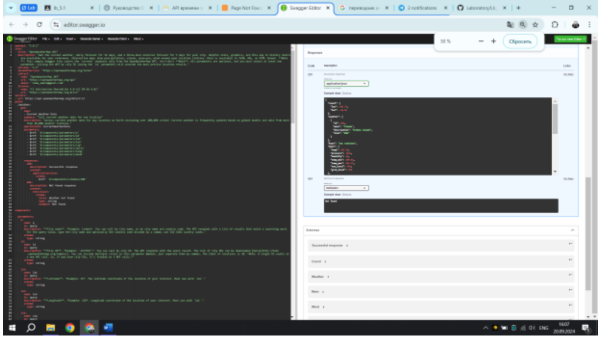
lat string (query) — **Latitude**. *Example: 35*. The latitude coordinate of the location of your interest. Must use with `lon`.

lon string (query) — **Longitude**. Example: 139. Longitude coordinate of the location of your interest. Must use with `lat`.

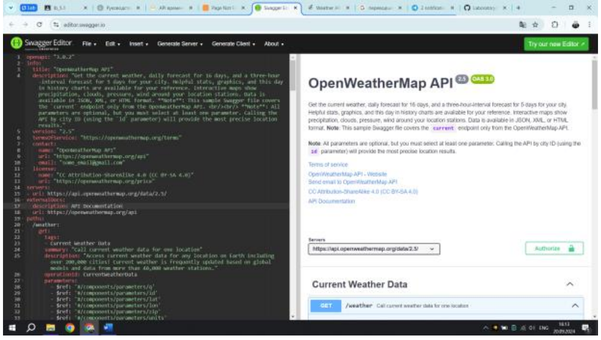
zip string (query) — **Zip code**. Search by zip code. *Example: 95050,us*. Please note that if the country is not specified, the search uses USA as a default.

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

11.Добавляем содержимое parameters в components.

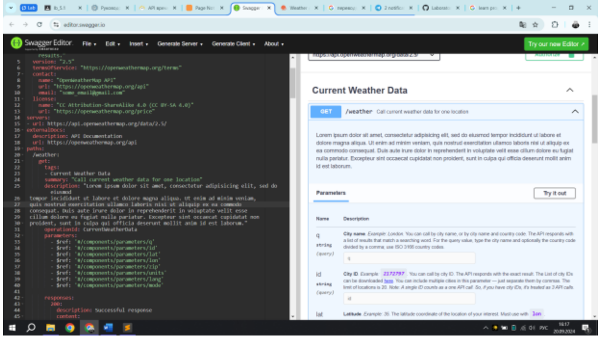


12.Опитимизируем код и добавляем параметры path



```
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. <br/><br/> **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: "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/
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'
```

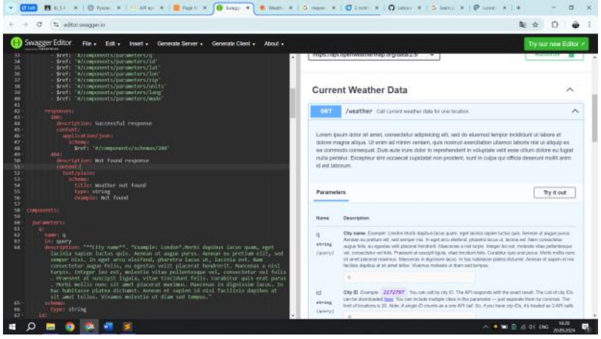
13.Добавляем ссылку на документацию API https://openweathermap.org/api



```
  version: "2.5"
  termsOfService: "https://openweathermap.org/terms"
  contact:
    name: "OpenWeatherMap API"
    url: "https://openweathermap.org/api"
    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/
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: "Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod
 tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,
 quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo
 consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
 cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non
 proident, sunt in culpa qui officia deserunt mollit anim id est laborum."
      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:
```

14. Изменяем свойство info description и смотрим, как обновится экран в правом столбце.



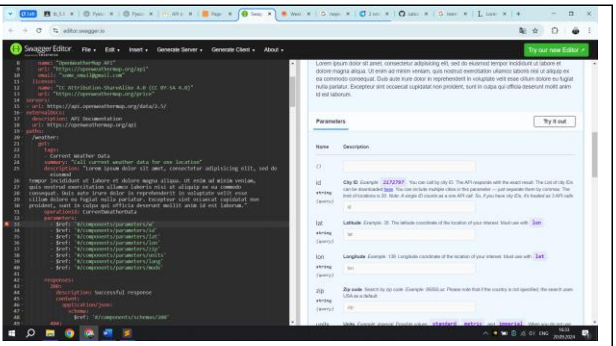
```
        - $ref: '#/components/parameters/q'
        - $ref: '#/components/parameters/id'
        - $ref: '#/components/parameters/lat'
        - $ref: '#/components/parameters/lon'
        - $ref: '#/components/parameters/zip'
        - $ref: '#/components/parameters/units'
        - $ref: '#/components/parameters/lang'
        - $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*.Morbi dapibus lacus quam, eget lacinia sapien luctus quis. Aenean ut augue purus. Aenean eu pretium elit, sed semper nisl. In eget arcu eleifend, pharetra lacus ut, lacinia est. Nam consectetur augue felis, eu egestas velit placerat hendrerit. Maecenas a nisl turpis. Integer leo est, molestie vitae pellentesque vel, consectetur vel felis. Praesent at suscipit ligula, vitae tincidunt felis. Curabitur quis erat purus. Morbi mollis nunc sit amet placerat maximus. Maecenas in dignissim lacus. In hac habitasse platea dictumst. Aenean et sapien id nisi facilisis dapibus at sit amet tellus. Vivamus molestie ut diam sed Tempus."
      schema:
        type: string
    id:
```

15.Делаем тоже самое только с объектом parameters



```
    name: "OpenWeatherMap API"
    url: "https://openweathermap.org/api"
    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/
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: "Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
        eiusmod
 tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,
 quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo
 consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
 cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non
 proident, sunt in culpa qui officia deserunt mollit anim id est laborum."
      operationId: CurrentWeatherData
      parameters:
        - $ref: '#/components/parameters/w'
        - $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:
```

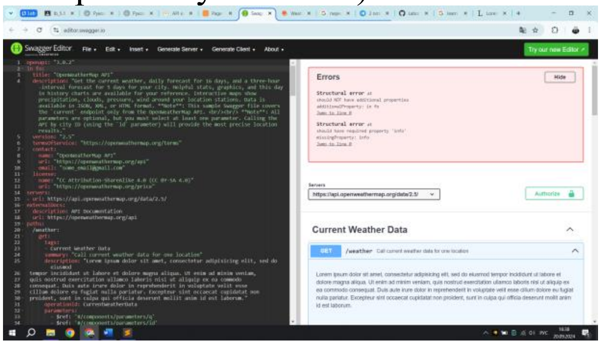
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Parameters

Try it out

Name	Description
{}	
id string (query)	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. 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. id
lat string (query)	Latitude. Example: 35. The latitude coordinate of the location of your interest. Must use with lon lat
lon string (query)	Longitude. Example: 139. Longitude coordinate of the location of your interest. Must use with lat lon
zip string (query)	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. zip
units	Units. Example: imperial. Possible values: standard, metric, and imperial. When you do not use

16. Он указывает на конкретное определение в объекте вот что произойдет если изменить его название. (листинг 5 component на который он указывает).



```
openapi: "3.0.2"
in fo:
  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. <br/><br/> **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: "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/
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: "Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
        eiusmod
 tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,
 quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo
 consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
 cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non
 proident, sunt in culpa qui officia deserunt mollit anim id est laborum."
      operationId: CurrentWeatherData
      parameters:
        - $ref: '#/components/parameters/q'
        - $ref: '#/components/parameters/id'
```

Errors

Hide

```
Structural error at
should NOT have additional properties
additionalProperty: in fo
Jump to line 0

Structural error at
should have required property 'info'
missingProperty: info
Jump to line 0
```

Servers

https://api.openweathermap.org/data/2.5/

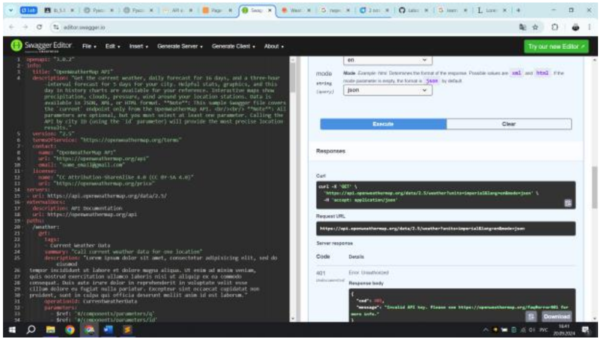
Authorize

Current Weather Data

GET /weather Call current weather data for one location

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

17.Ошибка



mode
string
(query)

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.

json

Execute

Clear

Responses

Curl

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

Request URL

```
https://api.openweathermap.org/data/2.5/weather?units=imperial&lang=en&mode=json
```

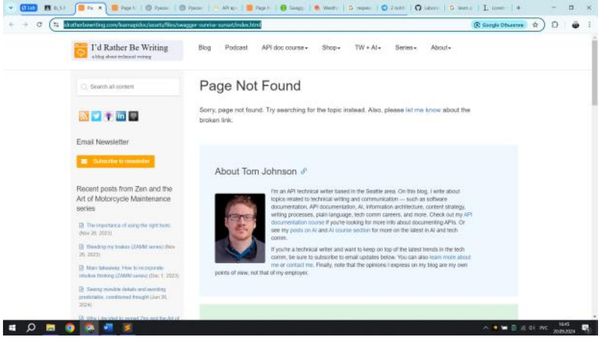
Server response

Code	Details
401 Undocumented	Error: Unauthorized

Response body

```
{
  "cod": 401,
  "message": "Invalid API key. Please see https://openweathermap.org/faq#error401 for more info."
}
```

18.При Try out и execute выводит.



Page Not Found

Sorry, page not found. Try searching for the topic instead. Also, please let me know about the broken link.

About Tom Johnson

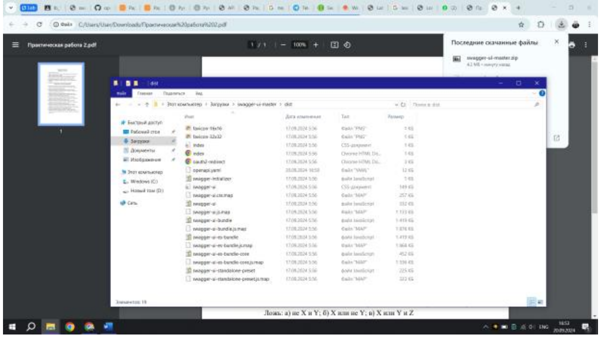
I'm an API technical writer based in the Seattle area. On this blog, I write about topics related to technical writing and communication — such as software documentation, API documentation, AI, information architecture, content strategy, writing processes, plain language, tech comm careers, and more. Check out my API documentation course if you're looking for more info about documenting APIs. Or see my posts on AI and AI course section for more on the latest in AI and tech comm.

If you're a technical writer and want to keep on top of the latest trends in the tech comm, be sure to subscribe to email updates below. You can also learn more about me or contact me. Finally, note that the opinions I express on my blog are my own points of view, not that of my employer.

Recent posts from Zen and the Art of Motorcycle Maintenance series

- The importance of using the right tools (Nov 26, 2023)
- Bleeding my brakes (ZAMM series) (Nov 26, 2023)
- Main takeaway: How to incorporate intuitive thinking (ZAMM series) (Dec 1, 2023)
- Seeing invisible details and avoiding predictable, conditioned thought (Jun 20, 2024)

19. Ссылки https://idratherbewriting.com/learnapidoc/assets/files/swagger/ и https://idratherbewriting.com/learnapidoc/assets/files/swagger-sunrise-sunset/index.html не работают

	 20 Все сделано
Результат	Научился работать в Swegger editor а также с Open APi.Из за отсутсвия ссылки мы в полной мере не можем закончить лабораторную

Листинг 1

```
curl -X 'POST' \
  'https://petstore.swagger.io/v2/pet' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
  "id": 66666,
  "category": {
    "id": 0,
    "name": "doggie"
  },
  "name": "Sharik",
  "photoUrls": [
    "string"
  ],
  "tags": [
    {
      "id": 0,
      "name": "string"
    }
  ],
  "status": "available"
}'
```

Листинг 2

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
  <Pet>
    <category>
      <id>0</id>
      <name>doggie</name>
    </category>
    <id>66666</id>
    <name>Sharik</name>
    <photoUrls>
      <photoUrl>string</photoUrl>
    </photoUrls>
    <status>available</status>
    <tags>
      <tag>
        <id>0</id>
        <name>string</name>
      </tag>
    </tags>
  </Pet>
```

Листинг 3

```
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. <br/><br/> **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: "some_email@gmail.com"

  license:

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

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

Листинг 4

```
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:
      - 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

      - 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 &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.*"
        schema:
          type: string

      - name: lat
        in: query
        description: "**Latitude**. *Example: 35*. The latitude coordinate of the location of your interest. Must use with `lon`."
        schema:
          type: string

      - name: lon
        in: query
        description: "**Longitude**. *Example: 139*. Longitude coordinate of the location of your interest. Must use with `lat`."
        schema:
          type: string

      - 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

      - 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"

      - 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"

      - 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"

      responses:
        200:
          description: Successful response
          content:
            application/json:
              schema:
                title: Sample
                type: object
                properties:
                  placeholder:
                    type: string
                    description: Placeholder description
        404:
          description: Not found response
          content:
            text/plain:
              schema:
                title: Weather not found
                type: string
                example: Not found
```

Листинг 5

```
q:
      name: q
      in: query
      description: "**City name**. *Example: London*.Morbi dapibus lacus quam, eget lacinia sapien luctus quis. Aenean ut augue purus. Aenean eu pretium elit, sed semper nisi. In eget arcu eleifend, pharetra lacus ut, lacinia est. Nam consectetur augue felis, eu egestas velit placerat hendrerit. Maecenas a nisl turpis. Integer leo est, molestie vitae pellentesque vel, consectetur vel felis. Praesent at suscipit ligula, vitae tincidunt felis. Curabitur quis erat purus. Morbi mollis nunc sit amet placerat maximus. Maecenas in dignissim lacus. In hac habitasse platea dictumst. Aenean et sapien id nisi facilisis dapibus at sit amet tellus. Vivamus molestie ut diam sed tempus."
      schema:
        type: string
```