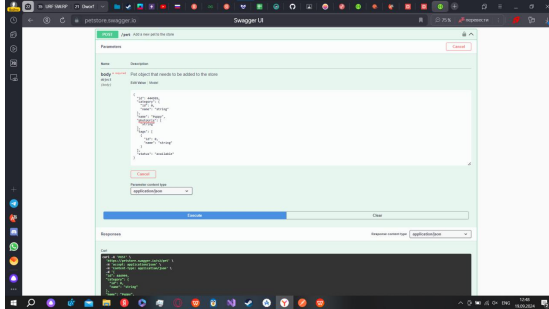
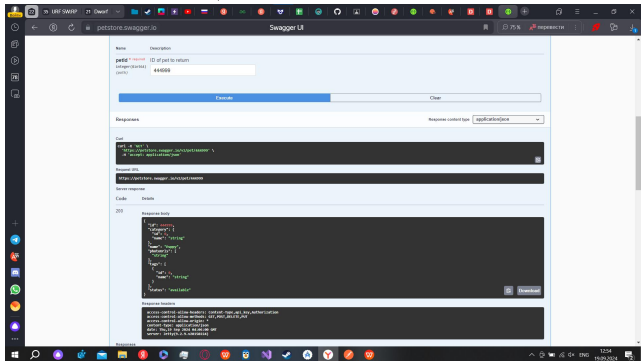
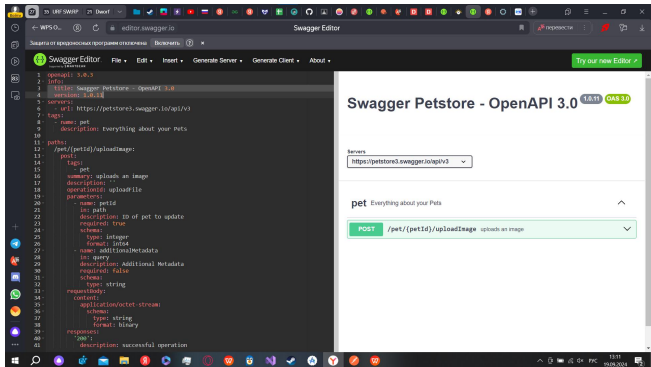
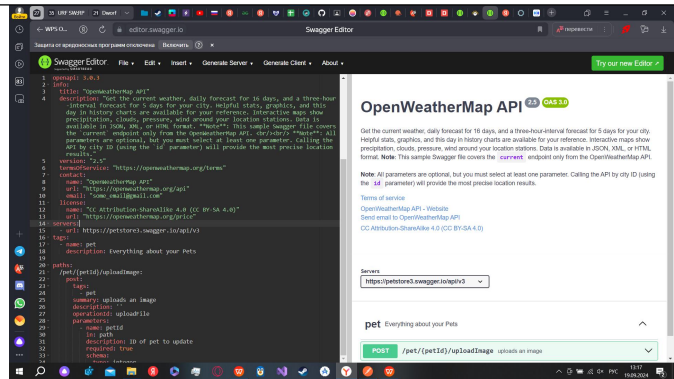
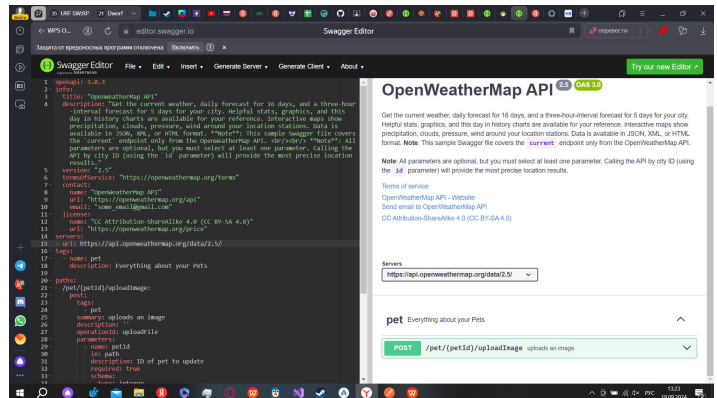


Тема лабораторной работы	lb 5 1
Выполняющий	Кутенков Константин
Помогающий	Наглов Виктор
Ход работы	<ol style="list-style-type: none"> 1. Рассмотрев лабораторную работу, мы приступили к ее выполнению 2. Мы зашли на сайт petstore.swagger.io и добавили нового питомца Puppy с id 444999  <ol style="list-style-type: none"> 3. Теперь, развернув вкладку GET/pet/{petId}, найдем нашего питомца  <p>Как видим, он нашелся</p> <ol style="list-style-type: none"> 4. Используя редактор спецификации OpenAPI, идем шаг за шагом, вставляя объекты  <p>Здесь мы вставили код с OpenAPI</p> <ol style="list-style-type: none"> 5. Следуя шагу 2, добавили объект info



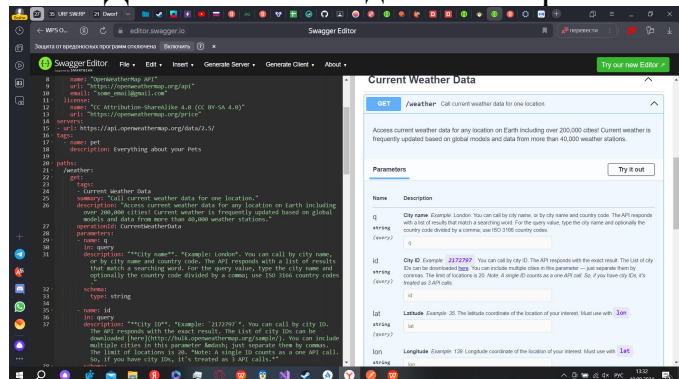
Теперь все выглядит вот так

6. Аналогично добавляем объект servers из шага 3



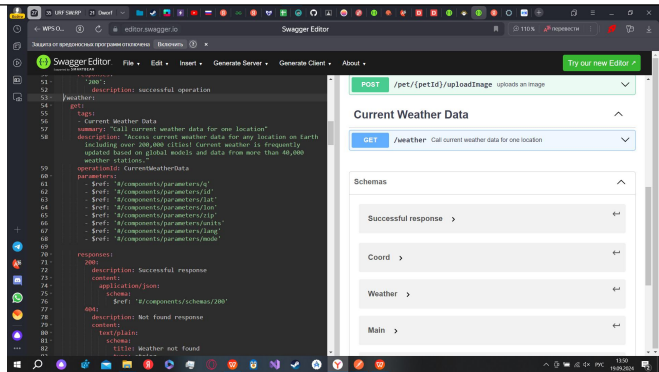
Как можно заметить строчка Servers, обладает другой ссылкой

7. Далее из шага 4 добавляем paths



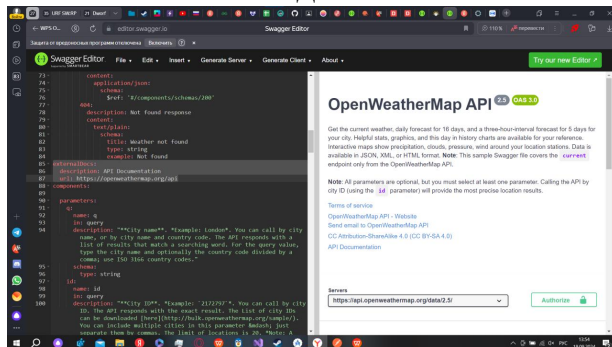
Как видно выше появилась вкладка Current Weather Data

8. Теперь из шага 5 добавляем components



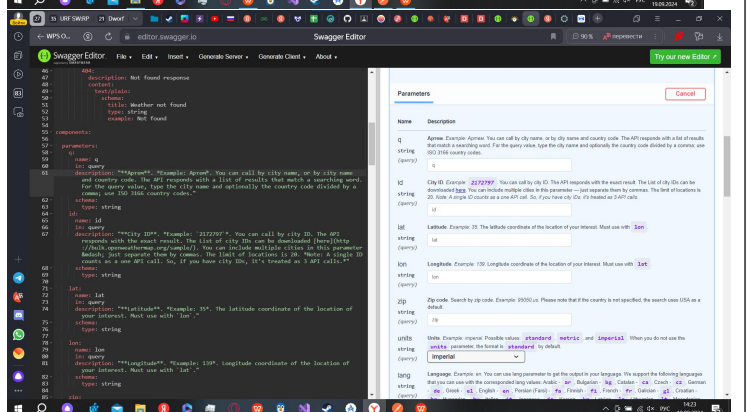
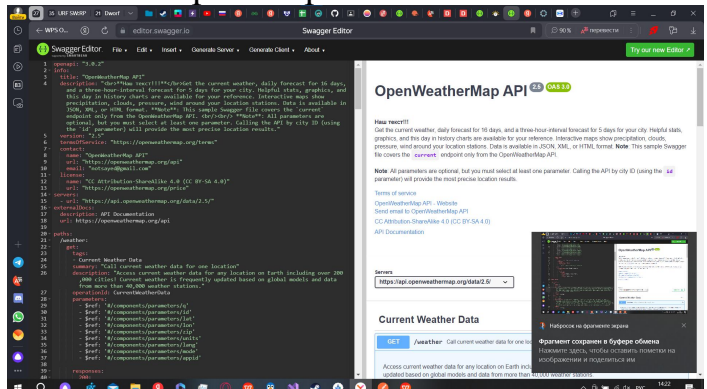
components был успешно добавлен

9. И из шага 8 добавили externaDocs



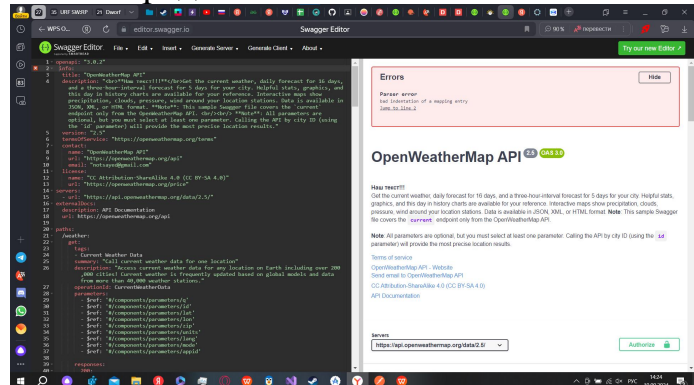
И вот ниже появилась ссылка API Documentation

10. В объекте info в description мы добавили текст и поменяли в description в parameters

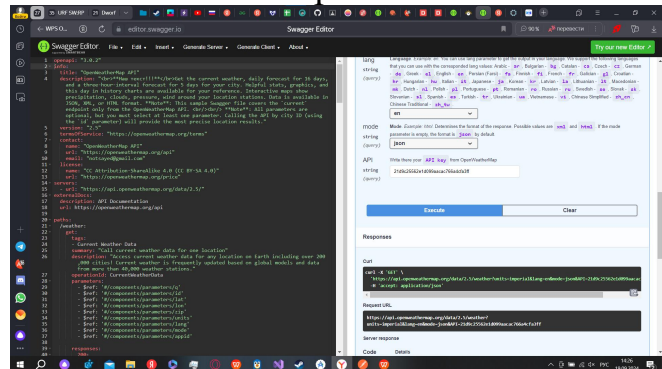


Описание изменилось (Наш текст!)

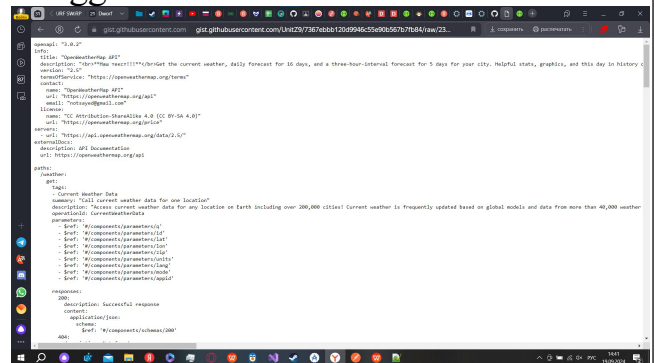
11. Попробуем добавить лишний пробел перед info и появится ошибка

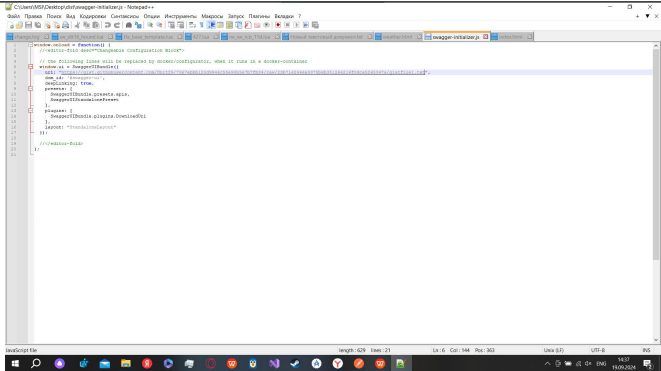
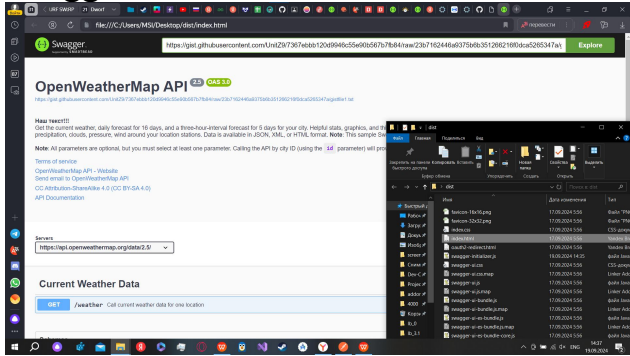


12.Развернули секцию GET нажали Try It Out и посмотрели на ответ



13. Теперь переходим к след. заданию. Скачиваем zip по ссылке, открываем его, вытаскиваем папку dist и редактируем файл swagger-initializer.js, путем замены начальной ссылки на ссылку с GitHub Gist, которую мы там получили скопировав ссылку из swagger.



	<div data-bbox="751 150 1414 519"></div> <p>После запуска файла index.html, мы видим что у нас все успешно запустилось и мы видим тот самый “сайт” который мы сделали через swagger</p> <div data-bbox="751 768 1383 1122"></div>
<p>Результат</p>	<p>После проделанной нами работы, по итогу можно сказать что:</p> <ol style="list-style-type: none">1. Мы научились относительно самостоятельно создавать сайты при помощи swagger, а также подробных инструкций другого сайта.2. Так же проверили работоспособность нашего сайта, запустив его html через браузер и как итог он работает!

<p>Программный код “сайта”:</p> <pre>openapi: "3.0.2" info: title: "OpenWeatherMap API" description: "
Н а ш т е к с т !!!
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)"</pre>
--

```
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: "**A p t e m**". *Example: A p t e m*. 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 &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
    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
```