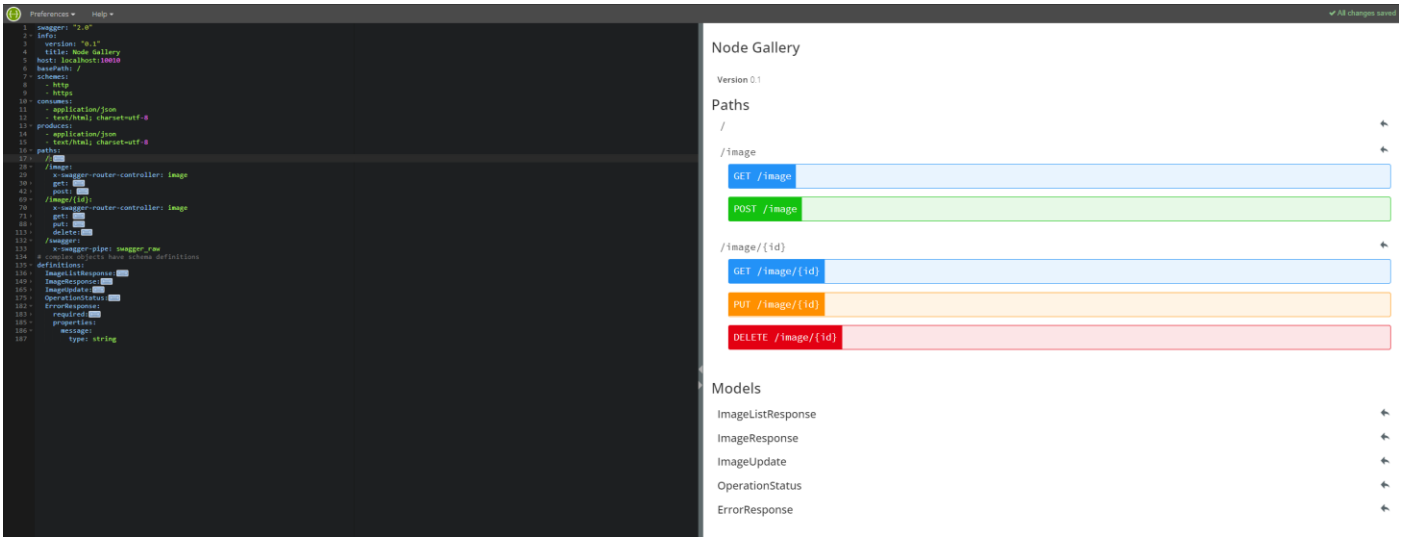
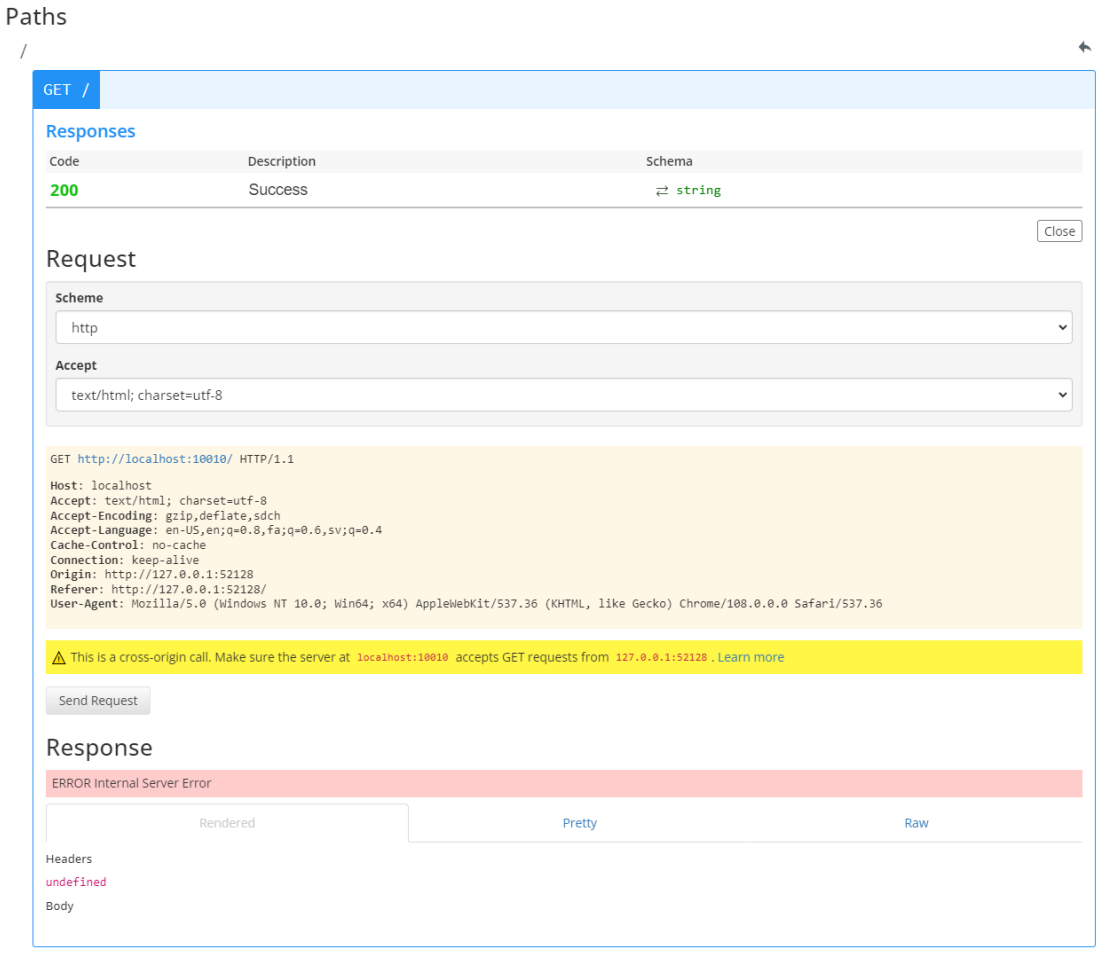
ZADANIE 5 Jakub Makaruk

1. **Korzystając z nowej definicji pliku swagger.yml i edytora Swagger przetestuj definicję API dla wszystkich ścieżek i metod.**



Wyniki testowanych usług za pomocą edytora Swagger:

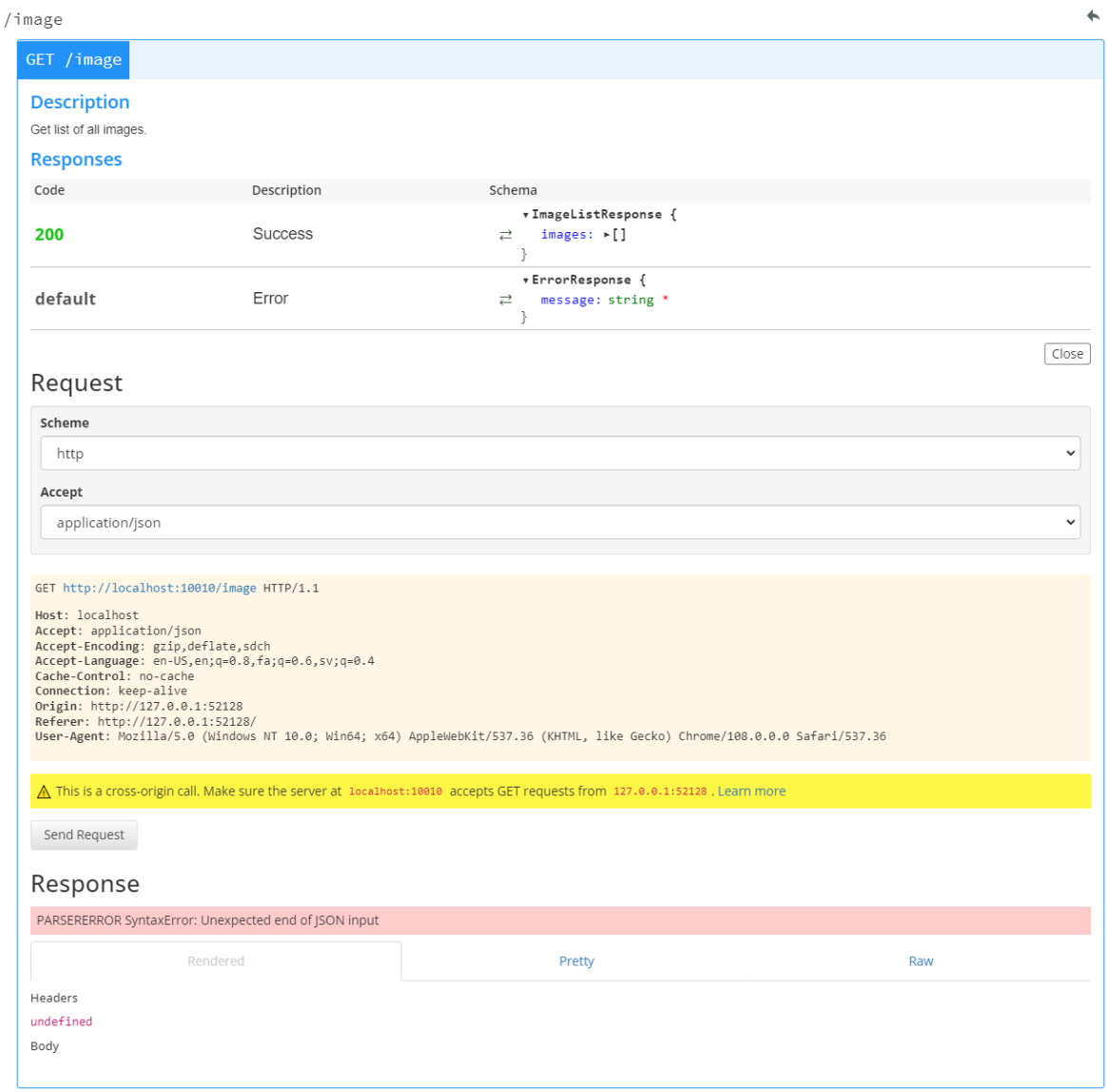
- **/**



W terminalu IDE prezentowany jest następujący komunikat z błędem:

Błąd spowodowany jest brakiem pliku w api/controllers o nazwie „homepage.js” oraz brakiem implementacji funkcji homepage().

- **/image GET**



Odpowiedź wynika z ciała funkcji, która jest wywoływana dla usługi GET /image, a konkretnie z braku parametru w funkcji json():

```
19  function listImages(req,res,next) {
20      res.json();
21  }
```

- **/image POST**

POST /image

Description

Add image to list with upload

Parameters

Name	Located in	Description	Required	Schema
title	formData	Image title.	No	string
description	formData	Image description.	No	string
upfile	formData	The file to upload.	No	file

Responses

Code	Description	Schema
200	Success	ImageResponse { id: string, title: string, description: string, date: string, path: string, size: integer }
default	Error	ErrorResponse { message: string * }

Close

Request

Scheme: http

Accept: application/json

Content-Type: multipart/form-data

Parameters

title: Zdjęcie 1 — Image title.

description: Testowe zdjęcie JM — Image description.

upfile: Wybierz plik IMG_20190312_130824.jpg — The file to upload.

```
POST http://localhost:10010/image HTTP/1.1

Host: localhost
Accept: application/json
Accept-Encoding: gzip,deflate,sdch
Accept-Language: en-US,en;q=0.8,fa;q=0.6,sv;q=0.4
Cache-Control: no-cache
Connection: keep-alive
Origin: http://127.0.0.1:52128
Referer: http://127.0.0.1:52128/
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36
Content-Length:
Content-Type: multipart/form-data

File
```

⚠ This is a cross-origin call. Make sure the server at localhost:10010 accepts POST requests from 127.0.0.1:52128. Learn more

Send Request

Response

ERROR Internal Server Error

```
Error: Response validation failed: failed schema validation
    at throwErrorWithCode (C:\Users\Jakub\Desktop\studia\node_gallery\node_modules\swagger-tools\lib\validators.js:121:13)
    at Object.module.exports.validateAgainstSchema (C:\Users\Jakub\Desktop\studia\node_gallery\node_modules\swagger-tools\lib\validators.js:176:7)
    at C:\Users\Jakub\Desktop\studia\node_gallery\node_modules\swagger-tools\middleware\swagger-validator.js:141:22
```

- **/image/{id} GET**

/image/{id}

GET /image/{id}

Description

Get image with selected id

Parameters

Name	Located in	Required	Schema
id	path	Yes	⇄ string

Responses

Code	Description	Schema
200	Success	⇄ ▾ ImageResponse { id: string, title: string, description: string, date: ▸ string, path: string, size: integer }
default	Error	⇄ ▾ ErrorResponse { message: string * }

Close

Request

Scheme: http

Accept: application/json

Parameters

id: 0123456789abcd

```
GET http://localhost:10010/image/0123456789abcd HTTP/1.1

Host: localhost
Accept: application/json
Accept-Encoding: gzip,deflate,sdch
Accept-Language: en-US,en;q=0.8,fa;q=0.6,sv;q=0.4
Cache-Control: no-cache
Connection: keep-alive
Origin: http://127.0.0.1:52128
Referer: http://127.0.0.1:52128/
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36
```

⚠ This is a cross-origin call. Make sure the server at localhost:10010 accepts GET requests from 127.0.0.1:52128 . Learn more

Send Request

Response

SUCCESS

Rendered | Pretty | Raw

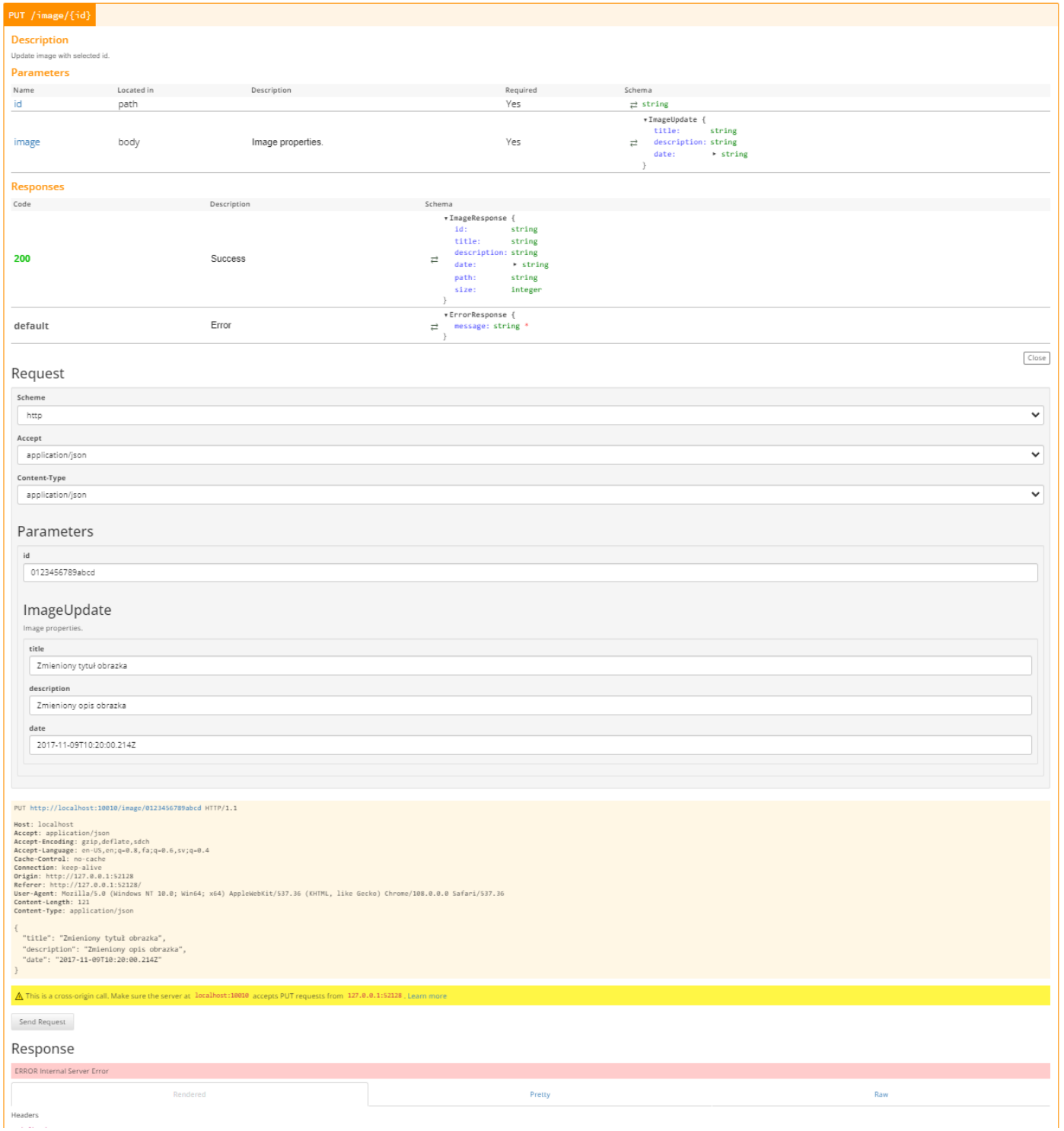
Headers

```
▾ Object
  content-length: "153"
  content-type: "application/json; charset=utf-8"
```

Body

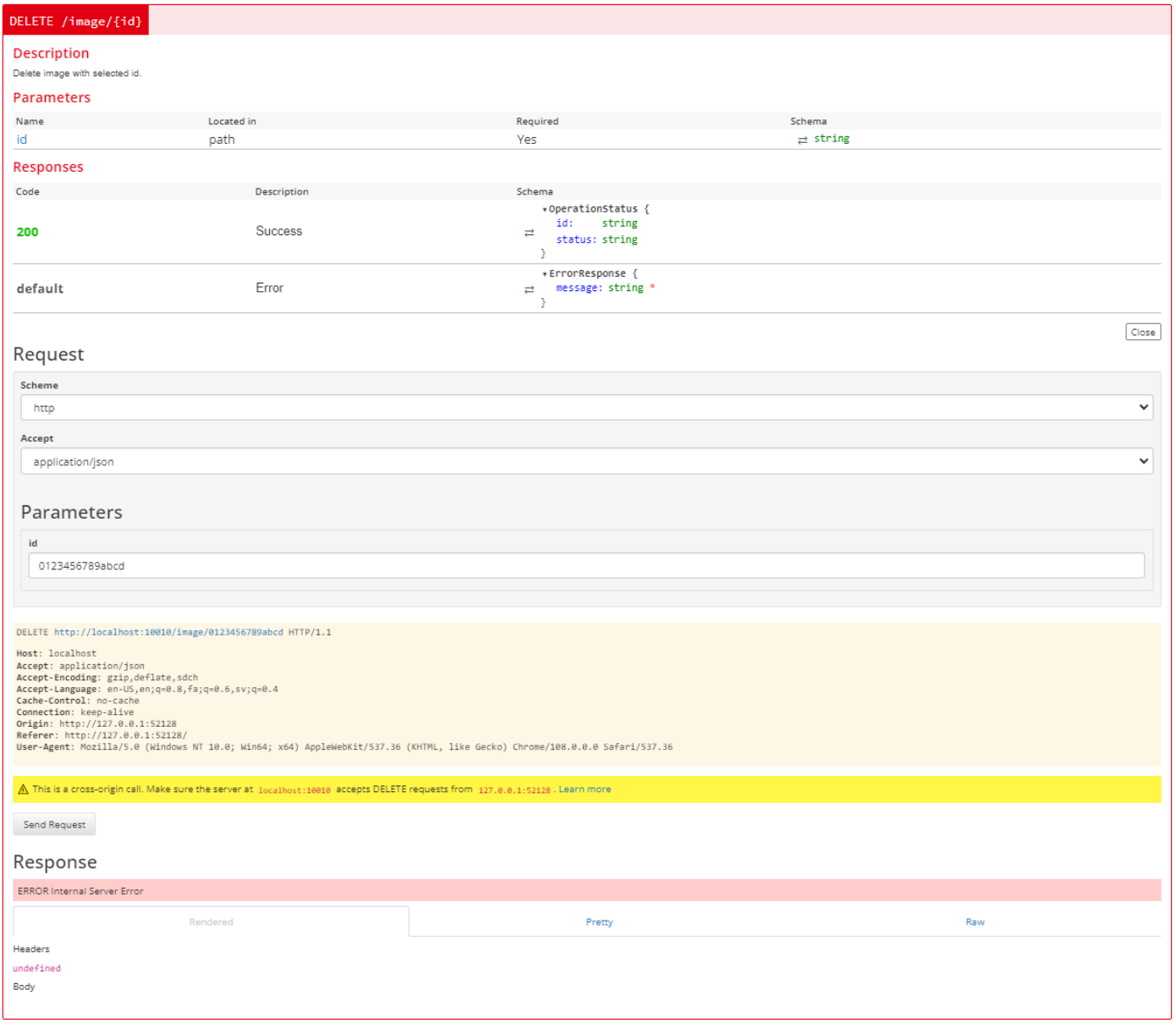
```
▾ Object
  id: "0123456789abcd"
  title: "Testowy obrazek"
  description: "Opis do obrazka"
  date: "2017-11-09T10:20:00.214Z"
  path: "/library/images/"
  size: 1024
```

- **/image/{id} PUT**




```
Error: Response validation failed: failed schema validation
    at throwErrorWithCode (C:\Users\Jakub\Desktop\studia\node_gallery\node_modules\swagger-tools\lib\validators.js:121:13)
    at Object.module.exports.validateAgainstSchema (C:\Users\Jakub\Desktop\studia\node_gallery\node_modules\swagger-tools\lib\validators.js:176:7)
```

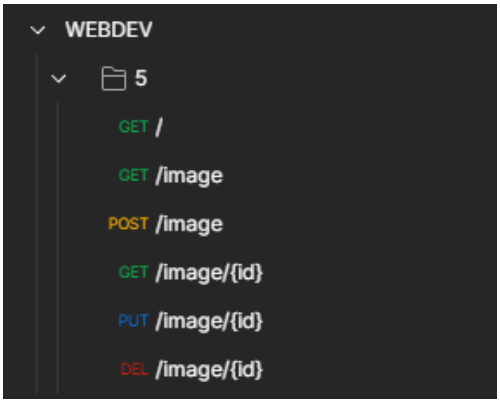
- **/image/{id} DELETE**



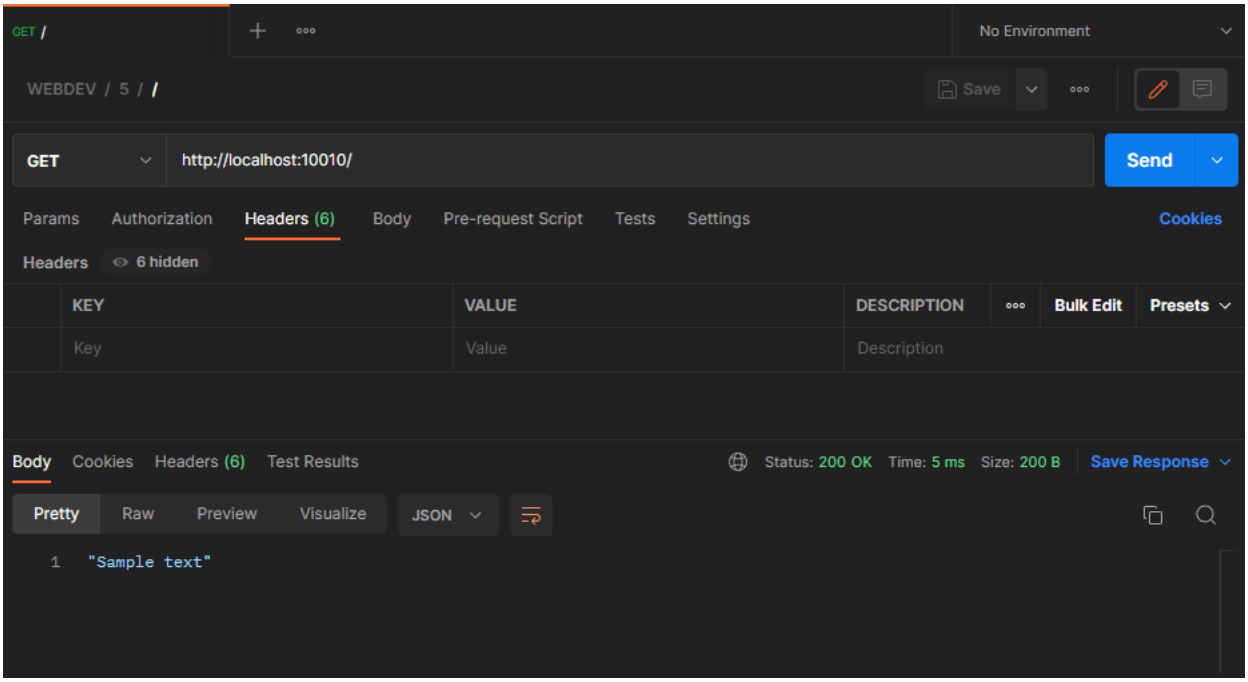

```
Error: Response validation failed: failed schema validation
    at throwErrorWithCode (C:\Users\Jakub\Desktop\studia\node_gallery\node_modules\swagger-tools\lib\validators.js:121:13)
    at Object.module.exports.validateAgainstSchema (C:\Users\Jakub\Desktop\studia\node_gallery\node_modules\swagger-tools\lib\validators.js:176:7)
```

2. **Uruchom Galerię w trybie mockup(przełącznik -m) i korzystając z Postmana zrób analogiczne testy dla serwisu. Które dodatkowo pola muszą być w Postmanie ustawione, żeby testy wykonały się poprawnie.**

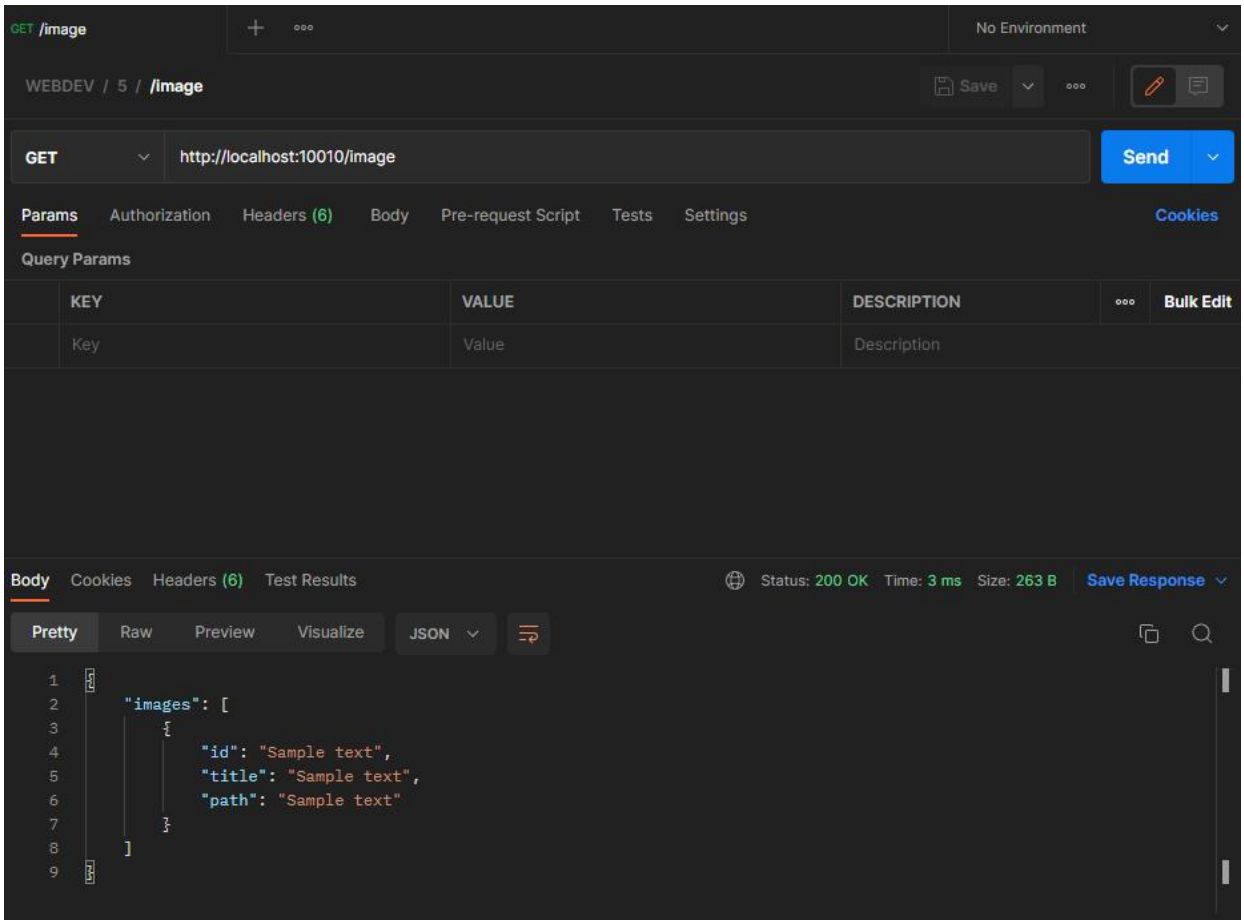
```
PS C:\Users\Jakub\Desktop\studia\node_gallery> swagger project start -m
Starting: C:\Users\Jakub\Desktop\studia\node_gallery\app.js...
  project started here: http://localhost:10010/
  project will restart on changes.
  to restart at any time, enter `rs`
```



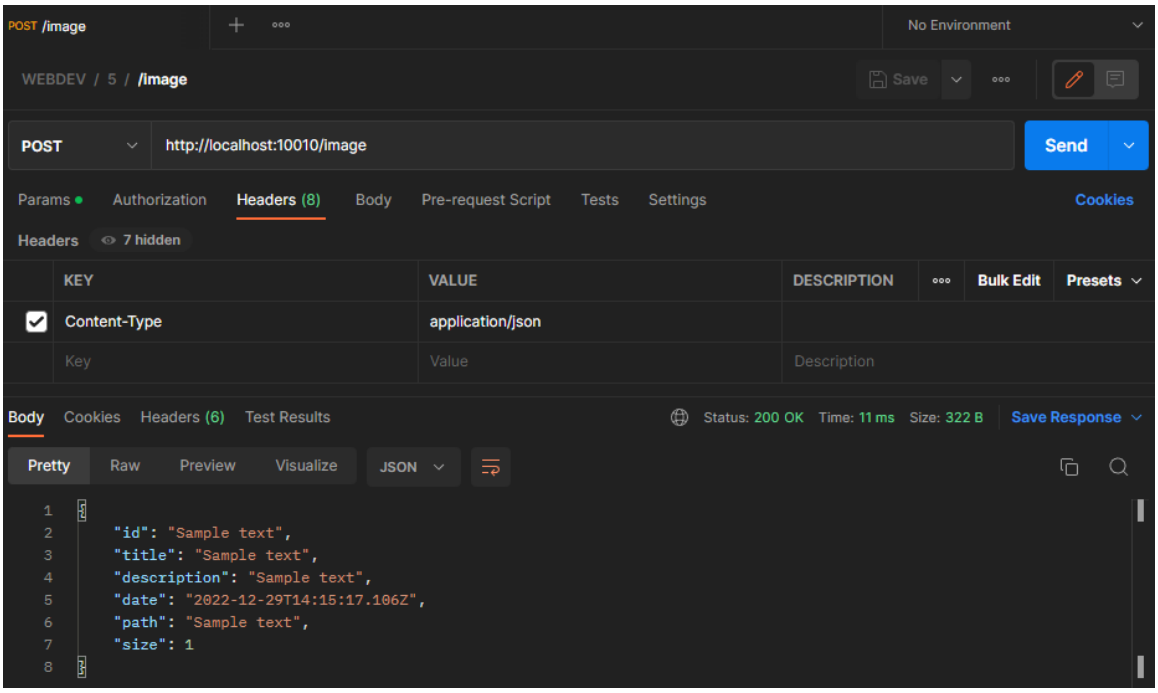
- **/**



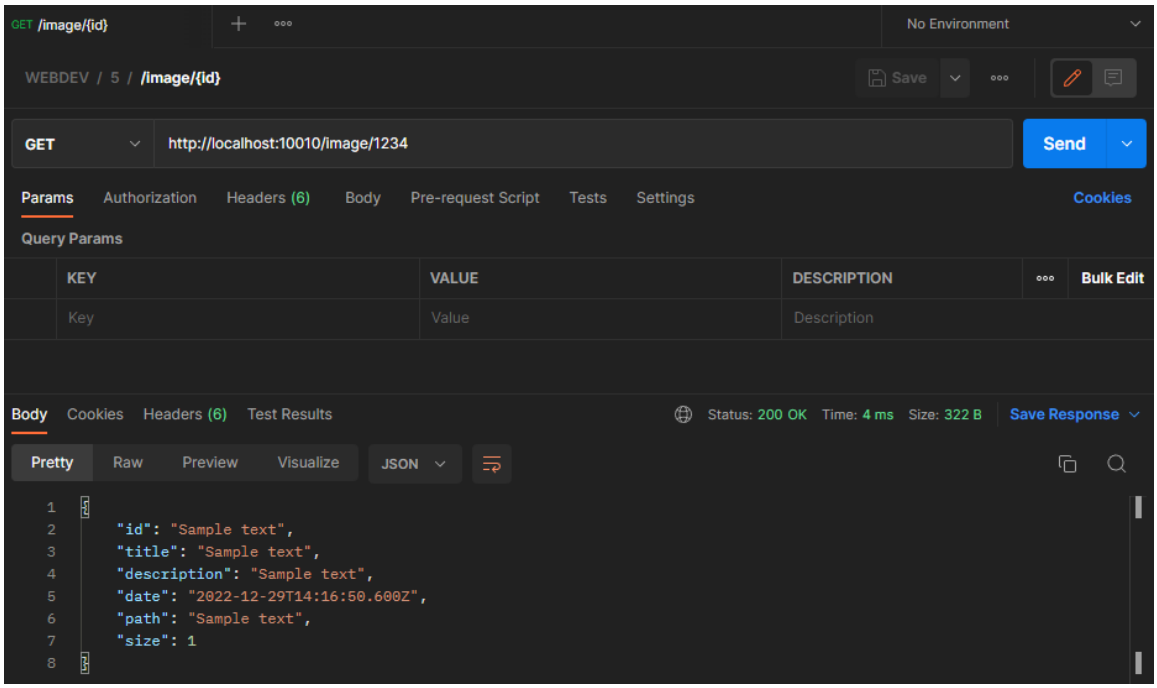
- **/image GET**



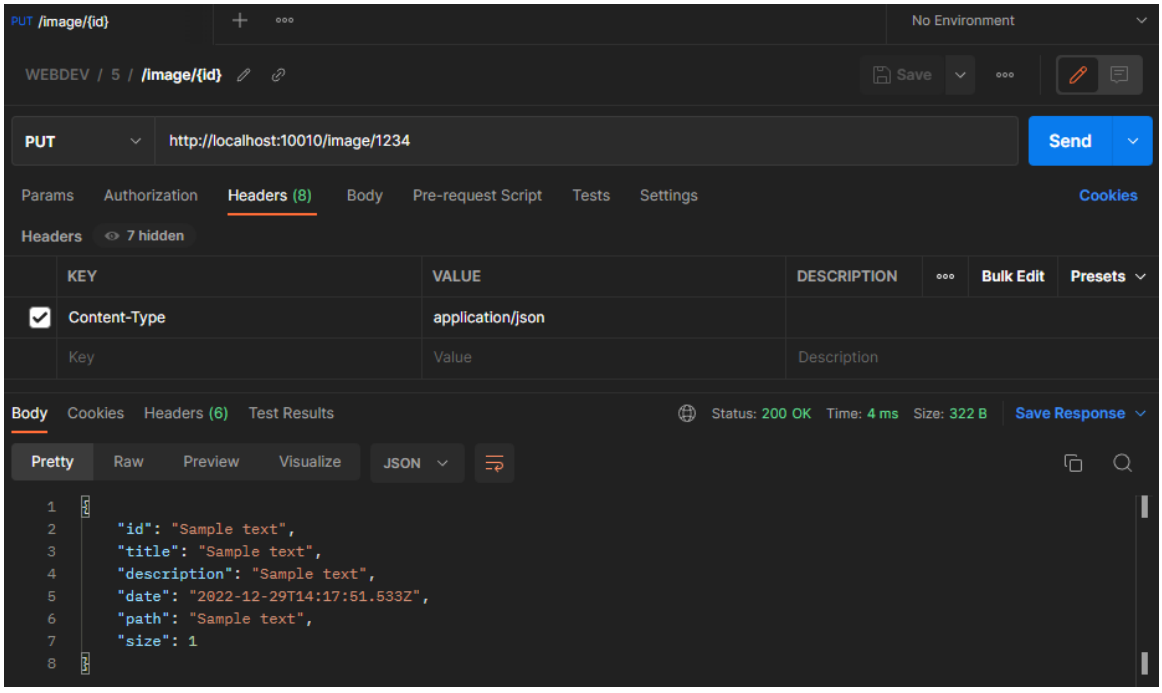
- **/image POST (Musi być ustawione pole Content-Type w nagłówkach)**



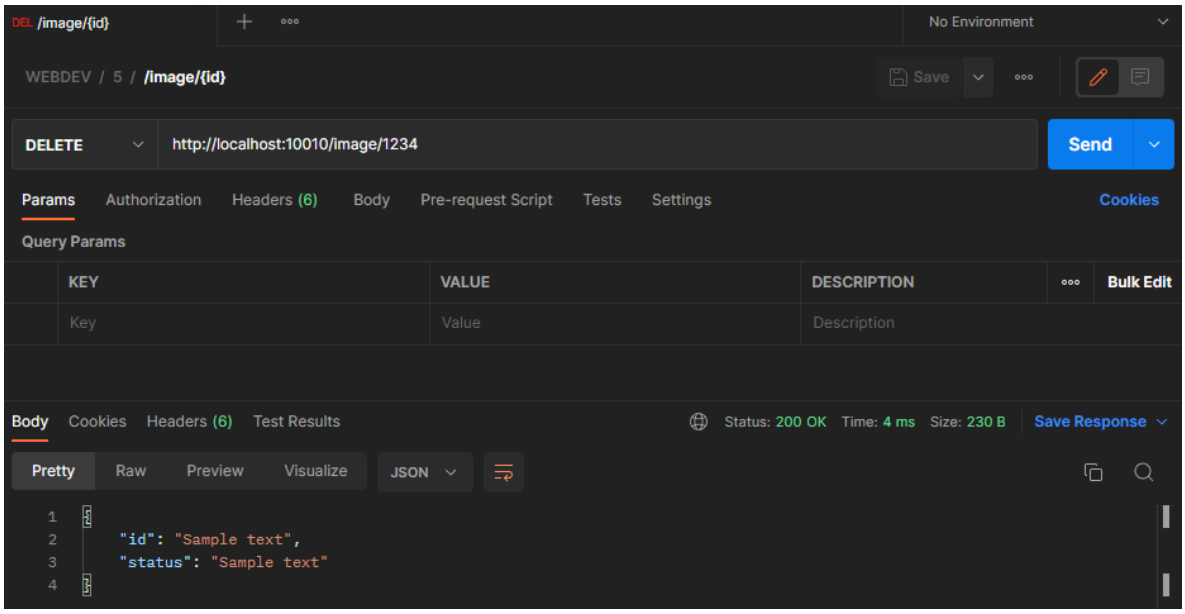
- **/image/{id} GET**



- **/image/{id} PUT (Musi być ustawione pole Content-Type w nagłówkach)**

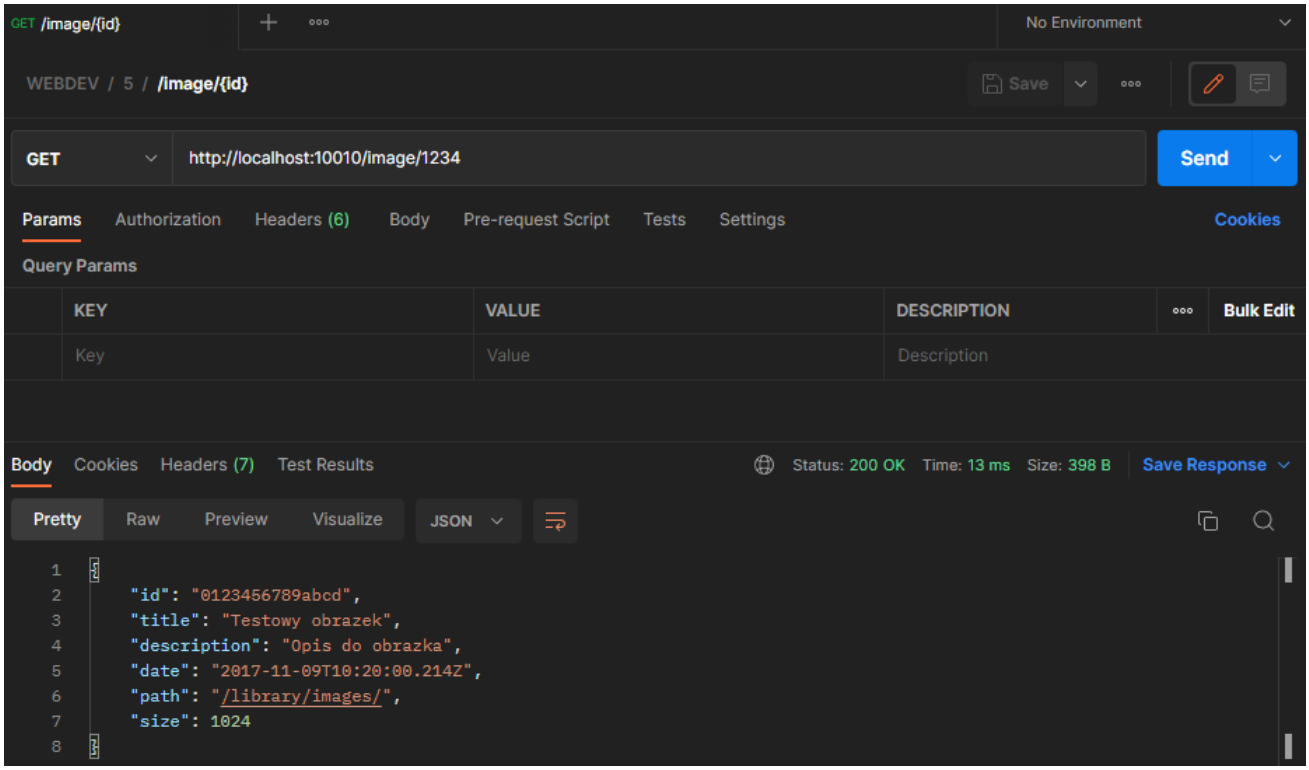


- **/image/{id} DELETE**



3. **Zatrzymaj serwis, po czym uruchom go w trybie normalnym (bez przełącznika -m). Sprawdź co tym razem zwraca metoda GET dla ścieżki /image/1234. Czy poprawnie działają pozostałe metody?**

Metoda zwraca inne wartości (zgodnie z implementacją funkcji *readImage()* zwraca obiekt testData):



Pozostałe metody GET zwracają status 200 (działają poprawnie). Natomiast operacje POST, PUT, DELETE wymagają podania w *body* schematu danych.

4. **Dodaj ciało do funkcji *listImages, createImage, updateImage IdeleteImage* tak aby zwracało poprawne odpowiedzi na zapytania Postmana. Skup się na odpowiedziach i ich formacie (patrz definicje z sekcji definitions Swaggera).**

```
'use strict';

module.exports = {
    listImages,
    createImage,
    readImage,
    updateImage,
    deleteImage
};

var testData = {
    id:"0123456789abcd",
    title:"Testowy obrazek",
    description:"Opis do obrazka",
    date:"2017-11-09T10:20:00.214Z",
    path:"/library/images/",
    size:1024
};

let images = [{
    id:"0123456789abcd",
    title:"Testowy obrazek",
    description:"Opis do obrazka",
    date:"2017-11-09T10:20:00.214Z",
    path:"/library/images/",
    size:1024
}];

function listImages(req,res,next) {
    res.json(images);
}

function createImage(req,res,next) {
    images.push(req.body)
    res.json(req.body);
}

function readImage(req,res,next) {
    res.json(testData);
}

function updateImage(req,res,next) {
    res.json({})
}

function deleteImage(req,res,next) {
    const imageToRemoveIndex = images.findIndex((image) => image.id ===
req.swagger.params.id.value);
    const result = imageToRemoveIndex !== -1 ? images[imageToRemoveIndex] : {};

    if (imageToRemoveIndex !== -1) {
        images.splice(imageToRemoveIndex, 1);
    }

    res.json(result);
}
```

5. **Spróbuj odczytać parametry przekazane do funkcji updateImage i w oparciu o nie dokonać modyfikacji obiektu testData.**

```
function updateImage(req,res,next) {
    const imageToUpdateIndex = images.findIndex((image) => image.id ===
req.swagger.params.id.value);

    if (imageToUpdateIndex !== -1) {
        images[imageToUpdateIndex].title = req.body.title;
        images[imageToUpdateIndex].description = req.body.description;
        images[imageToUpdateIndex].date = req.body.date;
    }

    res.json(images[imageToUpdateIndex]);
}
```

6. **Przygotuj zmienne, które będą przechowywać wartości parametrów dla pozostałych funkcji.**

- **/image POST**

```
{
    "title": "Nowy testowy obrazek 1",
    "description": "Nowy opis do nowego obrazka",
    "upfile": "/library/images/image1"
}
```

- **/image/{id} PUT**

```
{
    "title": "Nowy tytuł dla obrazka",
    "description": "Nowy opis dla obrazka",
    "date": "2017-11-09T10:20:00.214Z"
}
```