

Projekt REST API

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Konspekt projektu: Baza danych albumów muzycznych (od początku w bazie znajduje się 5 albumów).

Dane dotyczące bazy danych są zapisane w formacie JSON.

Format albumów w bazie danych:

```
30 records = {
31     'record1': {
32         'Title': 'Space Oddity',
33         'Year': 1969,
34         'Artist': 'David Bowie',
35         'Genre': 'Folk/Rock',
36         'NumberOfTracks': 10,
37         'Length': '45:12'}
38
39     'record2': {
40         'Title': '808s & Heartbreak',
41         'Year': 2008,
42         'Artist': 'Kanye West',
43         'Genre': 'R&B/Electropop/Synth-Pop',
44         'NumberOfTracks': 12,
45         'Length': '51:58'}
```

Możliwe operacje:

- wyświetlanie identyfikatorów albumów, listy albumów (record1, record2 itd.) -> METODA GET

```
@app.route('/ListOfRecords', methods=['GET'])
```

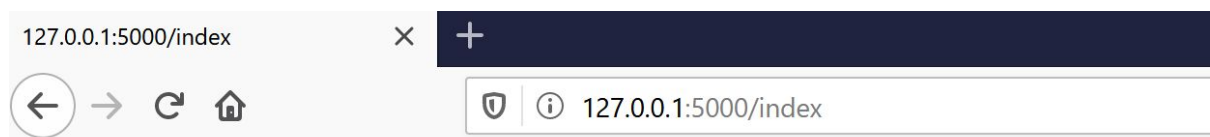
- dodanie nowego identyfikatora albumu z pustymi wartościami pól -> METODA POST
- aktualizacja, zmiana danych dotyczących istniejącego albumu -> METODA PUT
- wyświetlanie szczegółowych informacji o pojedynczym albumie -> METODA GET

```
@app.route('/records/<string:id>', methods=['GET'])
```

- usunięcie albumu o podanym identyfikatorze z bazy danych -> METODA DELETE

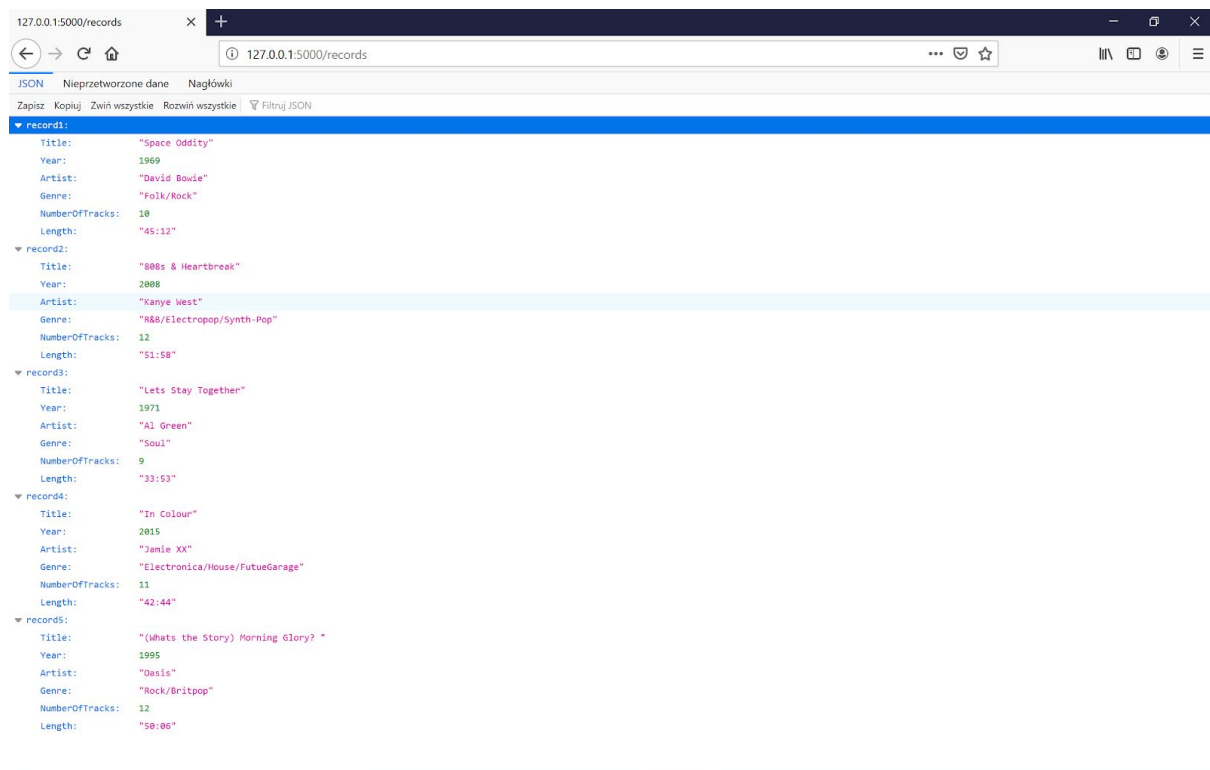
PREZENTACJA DZIAŁANIA (przeglądarka Firefox)

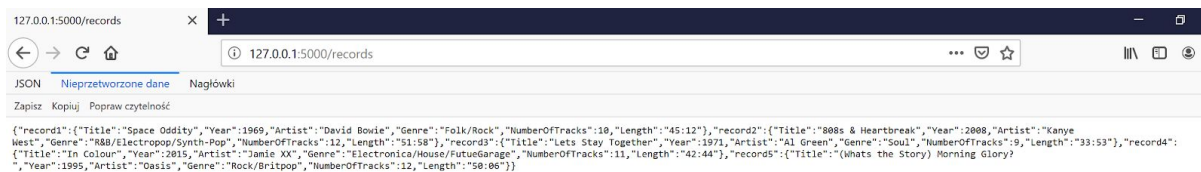
Strona startowa:



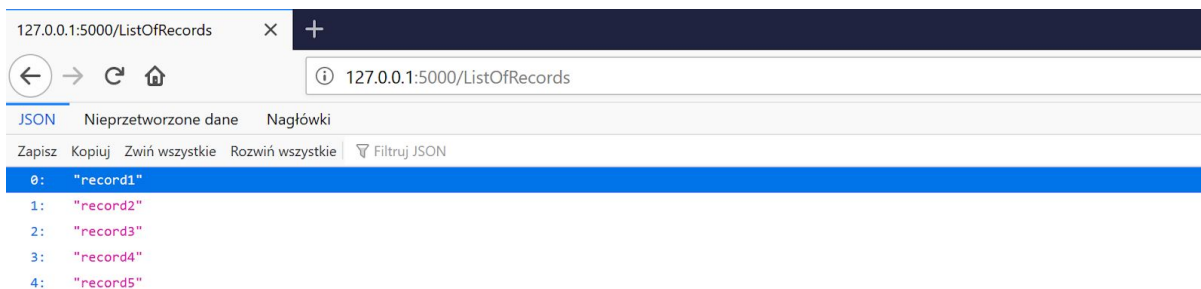
BAZA ALBUMÓW MUZYCZNYCH!

Odwołanie się do całej bazy albumów:

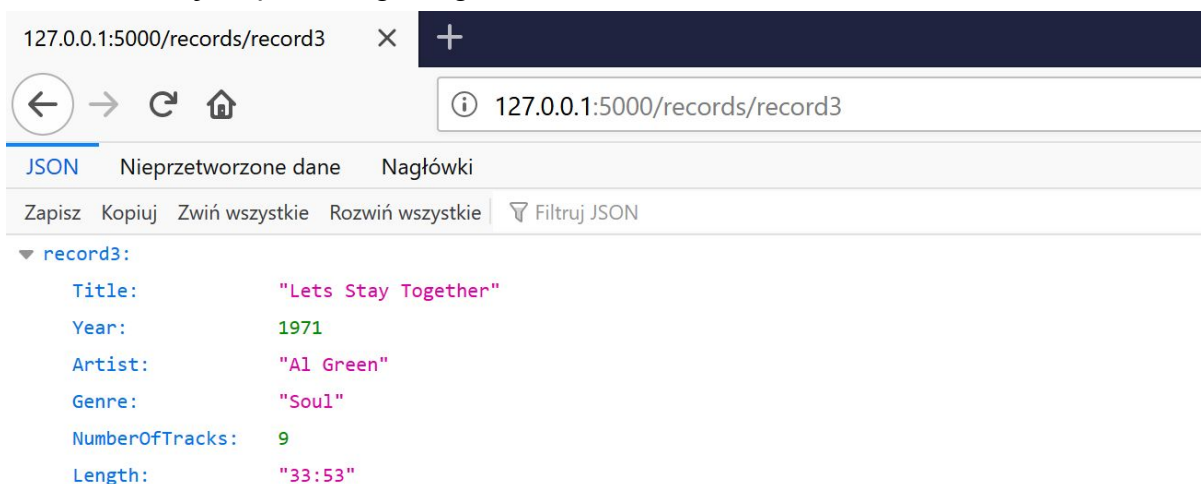




Odwołanie się do listy albumów:



Odwołanie się do poszczególnego albumu:



Błędne odwołanie:



```

    Use a production WSGI server instead.
    * Debug mode: off
    * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [10/Jun/2020 14:26:18] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 14:26:18] "GET /favicon.ico HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 14:27:34] "GET /index HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 14:27:35] "GET /favicon.ico HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 14:32:17] "GET /index HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 14:32:18] "GET /favicon.ico HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 14:32:55] "GET /index HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 14:32:55] "GET /favicon.ico HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 14:35:04] "GET /records HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 14:37:24] "GET /index HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 14:37:29] "GET /records HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 14:37:42] "GET /ListOfRecords HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 14:39:55] "GET /records/record3 HTTP/1.1" 200 -
[2020-06-10 14:40:39,084] ERROR in app: Exception on /records/record6 [GET]
Traceback (most recent call last):
  File "C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\venv\lib\site-packages\flask\app.py", line 2447, in wsgi_app
    response = self.full_dispatch_request()
  File "C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\venv\lib\site-packages\flask\app.py", line 1953, in full_dispatch_request
    return self.finalize_request(rv)
  File "C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\venv\lib\site-packages\flask\app.py", line 1968, in finalize_request
    response = self.make_response(rv)
  File "C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\venv\lib\site-packages\flask\app.py", line 2097, in make_response
    raise TypeError(
TypeError: The view function did not return a valid response. The function either returned None or ended without a return statement.
127.0.0.1 - - [10/Jun/2020 14:40:39] "GET /records/record6 HTTP/1.1" 500 -
127.0.0.1 - - [10/Jun/2020 14:40:48] "GET /123 HTTP/1.1" 200 -

```

PREZENTACJA DZIAŁANIA (klient)

Wyświetlanie listy albumów:

Wiersz polecenia - python __init__.py

Microsoft Windows [Version 10.0.18362.900]

(c) 2019 Microsoft Corporation. Wszelkie prawa zastrzeżone.

C:\Users\banas>cd C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app

C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app>pwd

'pwd' is not recognized as an internal or external command, operable program or batch file.

C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app>ls

'ls' is not recognized as an internal or external command, operable program or batch file.

C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app>dir

Volume in drive C is Local Disk

Volume Serial Number is 2C89-ED9D

Directory of C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app

09.06.2020 17:44 <DIR> .

09.06.2020 17:44 <DIR> ..

07.06.2020 18:05 <DIR> .idea

09.06.2020 17:40 2 528 client.py

08.06.2020 19:59 108 routes.py

09.06.2020 17:44 16 484 __init__.py

08.06.2020 19:59 <DIR> __pycache__

3 File(s) 19 120 bytes

4 Dir(s) 22 511 435 776 bytes free

C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app>python __init__.py

Traceback (most recent call last):

File "C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app__init__.py", line 4, in <module>

from flask import Flask, jsonify, abort, request, make_response, Response

ModuleNotFoundError: No module named 'flask'

C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app>python __init__.py

* Serving Flask app "__init__" (lazy loading)

* Environment: production

WARNING: This is a development server. Do not use it in a production deployment.

Use a production WSGI server instead.

* Debug mode: off

* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

127.0.0.1 - - [10/Jun/2020 14:59:54] "GET /ListOfRecords HTTP/1.1" 200 -

Wiersz polecenia - python -m client.py

mod_name, mod_spec, code = _get_module_details(mod_name, _Error)

File "C:\Users\banas\AppData\Local\Programs\Python\Python38-32\lib\runpy.py", line 109, in _get_module_details

import _ (pkg_name)

File "C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app\client.py", line 1, in <module>

import requests

ModuleNotFoundError: No module named 'requests'

C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app>pip install requests

Collecting requests

Using cached requests-2.23.0-py2.py3-none-any.whl (58 kB)

Collecting idna3, >=2.5

Using cached idna-2.9-py2.py3-none-any.whl (58 kB)

Collecting chardet4, >=3.0.2

Using cached chardet-3.0.4-py2.py3-none-any.whl (133 kB)

Collecting certifi>=2017.4.17

Using cached certifi-2020.4.5.2-py2.py3-none-any.whl (157 kB)

Collecting urllib3<1.25.0, >=1.25.1, <1.26, >=1.21.1

Using cached urllib3-1.25.9-py2.py3-none-any.whl (126 kB)

Installing collected packages: idna, chardet, certifi, urllib3, requests

Successfully installed certifi-2020.4.5.2 chardet-3.0.4 idna-2.9 requests-2.23.0 urllib3-1.25.9

C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app>python -m client.py

1 Get list of records (GET)

2 Add record id (POST)

3 Update record info (PUT)

4 Get set info (GET)

5 Delete set (DELETE)

6 Exit

Select function: 1

<Response [200]>

List of records:

Number of record: record1

Number of record: record2

Number of record: record3

Number of record: record4

Number of record: record5

1 Get list of records (GET)

2 Add record id (POST)

3 Update record info (PUT)

4 Get set info (GET)

5 Delete set (DELETE)

6 Exit

Select function:

Dodanie nowego identyfikatora albumu:

```
Wiersz polecenia - python __init__.py
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. Wszelkie prawa zastrzeżone.

C:\Users\banas>cd C:\Users\banas\OneDrive\Dokumenty\apirestproject\app

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>pwd
'pwd' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>ls
'ls' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>dir
Volume in drive C is Local Disk
Volume Serial Number is 2C89-ED9D

Directory of C:\Users\banas\OneDrive\Dokumenty\apirestproject\app

09.06.2020 17:44 <DIR>          .
09.06.2020 17:44 <DIR>          ..
07.06.2020 18:05 <DIR>          .idea
09.06.2020 17:40          2 528 client.py
08.06.2020 19:59          108 routes.py
09.06.2020 17:44          16 484 __init__.py
08.06.2020 19:59 <DIR>          __pycache__
               3 File(s)          19 120 bytes
               4 Dir(s) 22 511 435 776 bytes free

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>python __init__.py
Traceback (most recent call last):
  File "C:\Users\banas\OneDrive\Dokumenty\apirestproject\app\__init__.py", line 4, in <module>
    from flask import Flask, jsonify, abort, request, make_response, Response
ModuleNotFoundError: No module named 'flask'

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>python __init__.py
* Serving Flask app "__init__" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [10/Jun/2020 14:59:54] "[37mGET /ListOfRecords HTTP/1.1[0m" 200 -
127.0.0.1 - - [10/Jun/2020 15:03:11] "[37mPOST /records/add HTTP/1.1[0m" 201 -

Wiersz polecenia - python -m client.py
Using cached idna-2.9-py2.py3-none-any.whl (58 kB)
Collecting chardet<4,>=3.0.2
  Using cached chardet-3.0.4-py2.py3-none-any.whl (133 kB)
Collecting certifi>=2017.4.17
  Using cached certifi-2020.4.5.2-py2.py3-none-any.whl (157 kB)
Collecting urllib3!=1.25.0,!1.25.1,<1.26,>=1.21.1
  Using cached urllib3-1.25.9-py2.py3-none-any.whl (126 kB)
Installing collected packages: idna, chardet, certifi, urllib3, requests
Successfully installed certifi-2020.4.5.2 chardet-3.0.4 idna-2.9 requests-2.23.0 urllib3-1.25.9

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>python -m client.py
1 Get list of records (GET)
2 Add record id (POST)
3 Update record info (PUT)
4 Get set info (GET)
5 Delete set (DELETE)
6 Exit

Select function: 1
<Response [200]>
List of records:
Number of record: record1
Number of record: record2
Number of record: record3
Number of record: record4
Number of record: record5

1 Get list of records (GET)
2 Add record id (POST)
3 Update record info (PUT)
4 Get set info (GET)
5 Delete set (DELETE)
6 Exit

Select function: 2
Input id of record to create: record6
<Response [201]>

1 Get list of records (GET)
2 Add record id (POST)
3 Update record info (PUT)
4 Get set info (GET)
5 Delete set (DELETE)
6 Exit

Select function:
```

Aktualizacja danych dotyczących albumu:

```
Wiersz polecenia - python __init__.py
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. Wszelkie prawa zastrzeżone.

C:\Users\banas>cd C:\Users\banas\OneDrive\Dokumenty\apirestproject\app

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>pwd
'pwd' is not recognized as an internal or external command,
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C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>ls
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operable program or batch file.

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>dir
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09.06.2020 17:44 <DIR>          .
09.06.2020 17:44 <DIR>          ..
07.06.2020 18:05 <DIR>          .idea
09.06.2020 17:40          2 528 client.py
08.06.2020 19:59          108 routes.py
09.06.2020 17:44          16 484 __init__.py
08.06.2020 19:59 <DIR>          __pycache__
               3 File(s)          19 120 bytes
               4 Dir(s) 22 511 435 776 bytes free

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>python __init__.py
Traceback (most recent call last):
  File "C:\Users\banas\OneDrive\Dokumenty\apirestproject\app\__init__.py", line 4, in <module>
    from flask import Flask, jsonify, abort, request, make_response, Response
ModuleNotFoundError: No module named 'flask'

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>python __init__.py
* Serving Flask app "__init__" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [10/Jun/2020 14:59:54] "[37mGET /ListOfRecords HTTP/1.1[0m" 200 -
127.0.0.1 - - [10/Jun/2020 15:03:11] "[37mPOST /records/add HTTP/1.1[0m" 201 -
127.0.0.1 - - [10/Jun/2020 15:04:25] "[37mPUT /records/record6 HTTP/1.1[0m" 201 -

Wiersz polecenia - python -m client.py
<Response [200]>
List of records:
Number of record: record1
Number of record: record2
Number of record: record3
Number of record: record4
Number of record: record5

1 Get list of records (GET)
2 Add record id (POST)
3 Update record info (PUT)
4 Get set info (GET)
5 Delete set (DELETE)
6 Exit

Select function: 2
Input id of record to create: record6
<Response [201]>

1 Get list of records (GET)
2 Add record id (POST)
3 Update record info (PUT)
4 Get set info (GET)
5 Delete set (DELETE)
6 Exit

Select function: 3
Update record data
  Input id of record to update: record6
Record's title: Raz
Year: 2
Artist: Trzy
Genre: Cztery
Number of tracks: 5
Length of the album:6
<Response [201]>

1 Get list of records (GET)
2 Add record id (POST)
3 Update record info (PUT)
4 Get set info (GET)
5 Delete set (DELETE)
6 Exit

Select function:
```

Wyświetlenie informacji na temat poszczególnego albumu:

```
Wiersz polecenia - python __init__.py
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. Wszelkie prawa zastrzeżone.

C:\Users\banas>cd C:\Users\banas\OneDrive\Dokumenty\apirestproject\app

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>pwd
'pwd' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>ls
'ls' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>dir
Volume in drive C is Local Disk
Volume Serial Number is 2C89-ED9D

Directory of C:\Users\banas\OneDrive\Dokumenty\apirestproject\app

09.06.2020 17:44 <DIR>          .
09.06.2020 17:44 <DIR>          ..
07.06.2020 18:05 <DIR>          .idea
09.06.2020 17:40             2 528 client.py
08.06.2020 19:59             108 routes.py
09.06.2020 17:44             16 484 __init__.py
08.06.2020 19:59 <DIR>          __pycache__
               3 File(s)          19 120 bytes
               4 Dir(s) 22 511 435 776 bytes free

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>python __init__.py
Traceback (most recent call last):
  File "C:\Users\banas\OneDrive\Dokumenty\apirestproject\app\__init__.py", line 4, in <module>
    from flask import Flask, jsonify, abort, request, make_response, Response
ModuleNotFoundError: No module named 'flask'

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>python __init__.py
* Serving Flask app "__init__" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [10/Jun/2020 14:59:54] "GET /ListOfRecords HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 15:03:11] "POST /records/add HTTP/1.1" 201 -
127.0.0.1 - - [10/Jun/2020 15:04:25] "PUT /records/record6 HTTP/1.1" 201 -
127.0.0.1 - - [10/Jun/2020 15:05:07] "GET /records/record6 HTTP/1.1" 200 -

Wiersz polecenia - python -m client.py
1 Get list of records (GET)
2 Add record id (POST)
3 Update record info (PUT)
4 Get set info (GET)
5 Delete set (DELETE)
6 Exit

Select function: 3
Update record data
  Input id of record to update: record6
Record's title: Raz
Year: 2
Artist: Trzy
Genre: Cztery
Number of tracks: 5
Length of the album:6
<Response [201]>

1 Get list of records (GET)
2 Add record id (POST)
3 Update record info (PUT)
4 Get set info (GET)
5 Delete set (DELETE)
6 Exit

Select function: 4
Get record data
  Input record id: record6
<Response [200]>

Info about record: record6
Title : Raz
Year : 2
Artist : Trzy
Genre : Cztery
NumberOfTracks : 5
Length : 6

1 Get list of records (GET)
2 Add record id (POST)
3 Update record info (PUT)
4 Get set info (GET)
5 Delete set (DELETE)
6 Exit

Select function: 
```

Usunięcie albumu z bazy:

```
Wiersz polecenia - python __init__.py
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. Wszelkie prawa zastrzeżone.

C:\Users\banas>cd C:\Users\banas\OneDrive\Dokumenty\apirestproject\app

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>pwd
'pwd' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>ls
'ls' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>dir
Volume in drive C is Local Disk
Volume Serial Number is 2C89-ED9D

Directory of C:\Users\banas\OneDrive\Dokumenty\apirestproject\app

09.06.2020 17:44 <DIR>          .
09.06.2020 17:44 <DIR>          ..
07.06.2020 18:05 <DIR>          .idea
09.06.2020 17:40             2 528 client.py
08.06.2020 19:59             108 routes.py
09.06.2020 17:44             16 484 __init__.py
08.06.2020 19:59 <DIR>          __pycache__
               3 File(s)          19 120 bytes
               4 Dir(s) 22 511 435 776 bytes free

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>python __init__.py
Traceback (most recent call last):
  File "C:\Users\banas\OneDrive\Dokumenty\apirestproject\app\__init__.py", line 4, in <module>
    from flask import Flask, jsonify, abort, request, make_response, Response
ModuleNotFoundError: No module named 'flask'

C:\Users\banas\OneDrive\Dokumenty\apirestproject\app>python __init__.py
* Serving Flask app "__init__" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [10/Jun/2020 14:59:54] "GET /ListOfRecords HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 15:03:11] "POST /records/add HTTP/1.1" 201 -
127.0.0.1 - - [10/Jun/2020 15:04:25] "PUT /records/record6 HTTP/1.1" 201 -
127.0.0.1 - - [10/Jun/2020 15:05:07] "GET /records/record6 HTTP/1.1" 200 -
127.0.0.1 - - [10/Jun/2020 15:06:02] "DELETE /records/record3 HTTP/1.1" 200 -

Wiersz polecenia - python -m client.py
Number of tracks: 5
Length of the album:6
<Response [201]>

1 Get list of records (GET)
2 Add record id (POST)
3 Update record info (PUT)
4 Get set info (GET)
5 Delete set (DELETE)
6 Exit

Select function: 4
Get record data
  Input record id: record6
<Response [200]>

Info about record: record6
Title : Raz
Year : 2
Artist : Trzy
Genre : Cztery
NumberOfTracks : 5
Length : 6

1 Get list of records (GET)
2 Add record id (POST)
3 Update record info (PUT)
4 Get set info (GET)
5 Delete set (DELETE)
6 Exit

Select function: 5
Delete record data
  Input id of record to delete: record3
<Response [200]>

1 Get list of records (GET)
2 Add record id (POST)
3 Update record info (PUT)
4 Get set info (GET)
5 Delete set (DELETE)
6 Exit

Select function: 
```

Postać końcowa bazy albumów:

127.0.0.1:5000/records	
JSON	Nieprzetworzone dane Nagłówki
Zapisz Kopiu Zwiń wszystkie Rozwiń wszystkie Filtruj JSON	
▼ record1:	
Title:	"Space Oddity"
Year:	1969
Artist:	"David Bowie"
Genre:	"Folk/Rock"
NumberOfTracks:	10
Length:	"45:12"
▼ record2:	
Title:	"808s & Heartbreak"
Year:	2008
Artist:	"Kanye West"
Genre:	"R&B/Electropop/Synth-Pop"
NumberOfTracks:	12
Length:	"51:58"
▼ record4:	
Title:	"In Colour"
Year:	2015
Artist:	"Jamie XX"
Genre:	"Electronica/House/FutueGarage"
NumberOfTracks:	11
Length:	"42:44"
▼ record5:	
Title:	"(Whats the Story) Morning Glory? "
Year:	1995
Artist:	"Oasis"
Genre:	"Rock/Britpop"
NumberOfTracks:	12
Length:	"50:06"
▼ record6:	
Title:	"Raz"
Year:	2
Artist:	"Trzy"
Genre:	"Cztery"
NumberOfTracks:	5
Length:	"6"

TEST DZIAŁANIA (Postman)

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Filter

History Collections

Today

- GET http://127.0.0.1:5000/records

Yesterday

- DEL http://127.0.0.1:5000/records/record 1
- DEL http://127.0.0.1:5000/records/record 1
- PUT http://127.0.0.1:5000/records/record 1
- PUT http://127.0.0.1:5000/records/record 1

June 8

- POST http://127.0.0.1:5000/records
- POST http://127.0.0.1:5000/records
- POST http://127.0.0.1:5000/records
- POST http://127.0.0.1:5000/records
- POST http://127.0.0.1:5000/records

GET http://127.0.0.1:5000/records

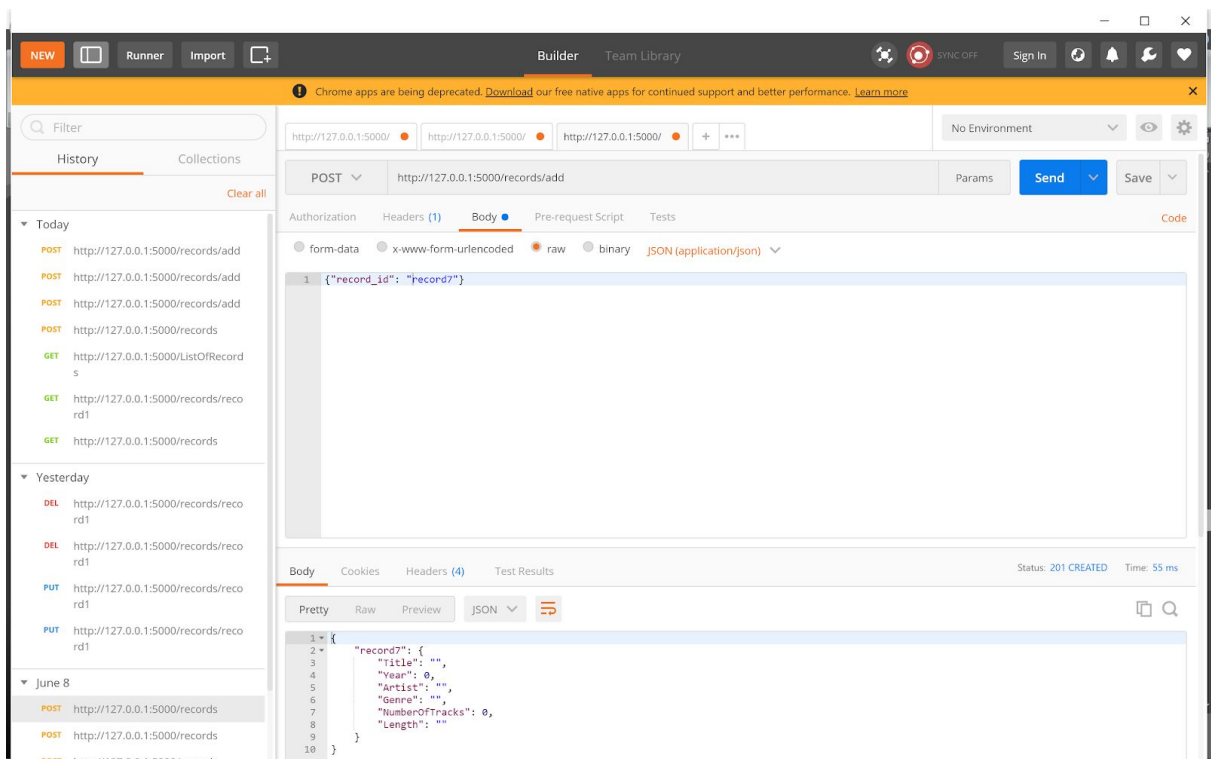
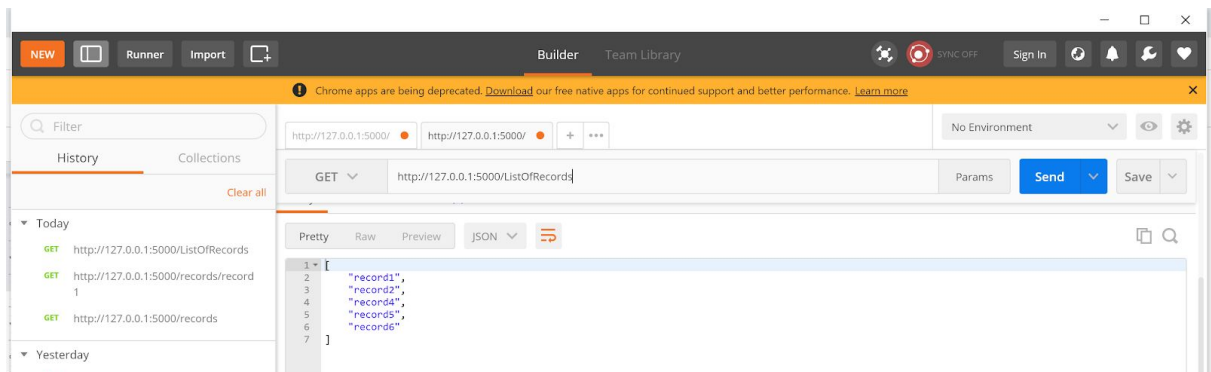
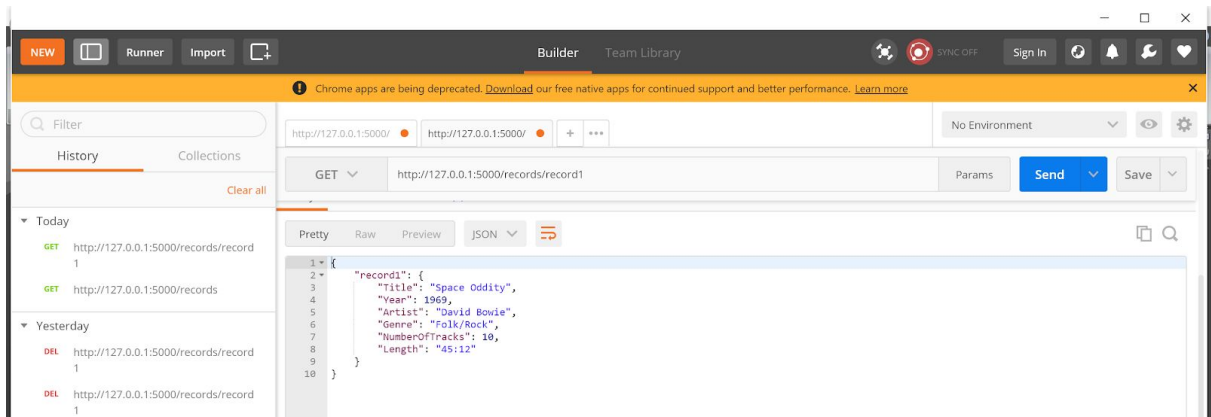
Params Send Save

Pretty Raw Preview JSON

```

{
  "record1": {
    "Title": "Space Oddity",
    "Year": 1969,
    "Artist": "David Bowie",
    "Genre": "Folk/Rock",
    "NumberOfTracks": 10,
    "Length": "45:12"
  },
  "record2": {
    "Title": "808s & Heartbreak",
    "Year": 2008,
    "Artist": "Kanye West",
    "Genre": "R&B/Electropop/Synth-Pop",
    "NumberOfTracks": 12,
    "Length": "51:58"
  },
  "record4": {
    "Title": "In Colour",
    "Year": 2015,
    "Artist": "Jamie XX",
    "Genre": "Electronica/House/FutueGarage",
    "NumberOfTracks": 11,
    "Length": "42:44"
  },
  "record5": {
    "Title": "(Whats the Story) Morning Glory? ",
    "Year": 1995,
    "Artist": "Oasis",
    "Genre": "Rock/Britpop",
    "NumberOfTracks": 12,
    "Length": "50:06"
  },
  "record6": {
    "Title": "Raz",
    "Year": 2,
    "Artist": "Trzy",
    "Genre": "Cztery",
    "NumberOfTracks": 5,
    "Length": "6"
  }
}

```



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Filter History Collections

Today

- PUT http://127.0.0.1:5000/records/record7
- POST http://127.0.0.1:5000/records/add
- POST http://127.0.0.1:5000/records/add
- POST http://127.0.0.1:5000/records/add
- POST http://127.0.0.1:5000/records
- GET http://127.0.0.1:5000/ListOfRecords
- GET http://127.0.0.1:5000/records/record1
- GET http://127.0.0.1:5000/records

Yesterday

- DEL http://127.0.0.1:5000/records/record1
- DEL http://127.0.0.1:5000/records/record1
- PUT http://127.0.0.1:5000/records/record1
- PUT http://127.0.0.1:5000/records/record1

June 8

- POST http://127.0.0.1:5000/records

PUT http://127.0.0.1:5000/records/record7

Authorization Headers (1) Body Pre-request Script Tests

form-data x-www-form-urlencoded raw binary JSON (application/json)

```
1 {"Title": "Postman1", "Year": 2020, "Artist": "Postman2", "Genre": "Postman3", "NumberOfTracks": 7, "Length": "99:99"}
```

Status: 201 CREATED Time: 86 ms

Body Cookies Headers (4) Test Results

Pretty Raw Preview JSON

```
1 {
2   "record7": {
3     "Title": "Postman1",
4     "Year": 2020,
5     "Artist": "Postman2",
6     "Genre": "Postman3",
7     "NumberOfTracks": 7,
8     "Length": "99:99"
9   }
10 }
```

NEW Runner Import Builder Team Library SYNC OFF Sign In

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Filter History Collections

Today

- DEL http://127.0.0.1:5000/records/record2
- PUT http://127.0.0.1:5000/records/record7
- POST http://127.0.0.1:5000/records/add
- POST http://127.0.0.1:5000/records/add
- POST http://127.0.0.1:5000/records/add
- POST http://127.0.0.1:5000/records
- GET http://127.0.0.1:5000/ListOfRecords
- GET http://127.0.0.1:5000/records/record1
- GET http://127.0.0.1:5000/records

Yesterday

- DEL http://127.0.0.1:5000/records/record1
- DEL http://127.0.0.1:5000/records/record1
- PUT http://127.0.0.1:5000/records/record1
- PUT http://127.0.0.1:5000/records/record1

June 8

- POST http://127.0.0.1:5000/records

DELETE http://127.0.0.1:5000/records/record2

Authorization Headers (1) Body Pre-request Script Tests

Type No Auth

Status: 200 OK Time: 41 ms

Body Cookies Headers (4) Test Results

Pretty Raw Preview JSON

```
1 {
2   "result": true
3 }
```

Postać końcowa bazy:

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Filter

History Collections

Today

- GET http://127.0.0.1:5000/records
- DEL http://127.0.0.1:5000/records
- DEL http://127.0.0.1:5000/records/reco rd2
- PUT http://127.0.0.1:5000/records/reco rd7
- POST http://127.0.0.1:5000/records/add
- POST http://127.0.0.1:5000/records/add
- POST http://127.0.0.1:5000/records/add
- POST http://127.0.0.1:5000/records
- GET http://127.0.0.1:5000/ListOfRecord s
- GET http://127.0.0.1:5000/records/reco rd1

Yesterday

- DEL http://127.0.0.1:5000/records/reco rd1
- DEL http://127.0.0.1:5000/records/reco rd1
- PUT http://127.0.0.1:5000/records/reco rd1
- PUT http://127.0.0.1:5000/records/reco rd1

GET http://127.0.0.1:5000/records

Params Send Save

Pretty Raw Preview JSON

```
1 {
2   "record1": {
3     "Title": "Space Oddity",
4     "Year": 1969,
5     "Artist": "David Bowie",
6     "Genre": "Folk/Rock",
7     "NumberOfTracks": 10,
8     "Length": "45:12"
9   },
10  "record4": {
11    "Title": "In Colour",
12    "Year": 2015,
13    "Artist": "Jamie XX",
14    "Genre": "Electronica/House/FutueGarage",
15    "NumberOfTracks": 11,
16    "Length": "42:44"
17  },
18  "records": {
19    "Title": "(Whats the Story) Morning Glory? ",
20    "Year": 1995,
21    "Artist": "Oasis",
22    "Genre": "Rock/Britpop",
23    "NumberOfTracks": 12,
24    "Length": "50:06"
25  },
26  "record6": {
27    "Title": "Raz",
28    "Year": 2,
29    "Artist": "Trzy",
30    "Genre": "Cztery",
31    "NumberOfTracks": 5,
32    "Length": "6"
33  },
34  "record7": {
35    "Title": "Postman1",
36    "Year": 2020,
37    "Artist": "Postman2",
38    "Genre": "Postman3",
39    "NumberOfTracks": 7,
40    "Length": "99:99"
41  }
42 }
```

127.0.0.1:5000/records

JSON Nieprzetworzone dane Nagłówki

Zapisz Kopiuż Zwiń wszystkie Rozwiń wszystkie Filtruj JSON

record1

- Title: "Space Oddity"
- Year: 1969
- Artist: "David Bowie"
- Genre: "Folk/Rock"
- NumberOfTracks: 10
- Length: "45:12"

record4

- Title: "In Colour"
- Year: 2015
- Artist: "Jamie XX"
- Genre: "Electronica/House/FutueGarage"
- NumberOfTracks: 11
- Length: "42:44"

records

- Title: "(Whats the Story) Morning Glory? "
- Year: 1995
- Artist: "Oasis"
- Genre: "Rock/Britpop"
- NumberOfTracks: 12
- Length: "50:06"

record6

- Title: "Raz"
- Year: 2
- Artist: "Trzy"
- Genre: "Cztery"
- NumberOfTracks: 5
- Length: "6"

record7

- Title: "Postman1"
- Year: 2020
- Artist: "Postman2"
- Genre: "Postman3"
- NumberOfTracks: 7
- Length: "99:99"

```
'ls' is not recognized as an internal or external command,  
operable program or batch file.
```

```
C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app>dir  
Volume in drive C is Local Disk  
Volume Serial Number is 2C89-ED9D
```

```
Directory of C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app
```

```
09.06.2020  17:44    <DIR>          .  
09.06.2020  17:44    <DIR>          ..  
07.06.2020  18:05    <DIR>          .idea  
09.06.2020  17:40             2 528 client.py  
08.06.2020  19:59             108 routes.py  
09.06.2020  17:44          16 484 __init__.py  
08.06.2020  19:59    <DIR>          __pycache__  
              3 File(s)          19 120 bytes  
              4 Dir(s)  22 511 435 776 bytes free
```

```
C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app>__init__.py  
Traceback (most recent call last):  
  File "C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app\__init__.py", line 4, in <module>  
    from flask import Flask, jsonify, abort, request, make_response, Response  
ModuleNotFoundError: No module named 'flask'
```

```
C:\Users\banas\OneDrive\Dokumenty\apiRESTproject\app>python __init__.py  
* Serving Flask app "__init__" (lazy loading)  
* Environment: production  
  WARNING: This is a development server. Do not use it in a production deployment.  
  Use a production WSGI server instead.  
* Debug mode: off  
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)  
127.0.0.1 - - [10/Jun/2020 14:59:54] "[37mGET /ListOfRecords HTTP/1.1[0m" 200 -  
127.0.0.1 - - [10/Jun/2020 15:03:11] "[37mPOST /records/add HTTP/1.1[0m" 201 -  
127.0.0.1 - - [10/Jun/2020 15:04:25] "[37mPUT /records/record6 HTTP/1.1[0m" 201 -  
127.0.0.1 - - [10/Jun/2020 15:05:07] "[37mGET /records/record6 HTTP/1.1[0m" 200 -  
127.0.0.1 - - [10/Jun/2020 15:06:02] "[37mDELETE /records/record3 HTTP/1.1[0m" 200 -  
127.0.0.1 - - [10/Jun/2020 15:06:48] "[37mGET /records HTTP/1.1[0m" 200 -  
127.0.0.1 - - [10/Jun/2020 15:09:30] "[37mGET /records HTTP/1.1[0m" 200 -  
127.0.0.1 - - [10/Jun/2020 15:11:28] "[37mGET /records/record1 HTTP/1.1[0m" 200 -  
127.0.0.1 - - [10/Jun/2020 15:12:01] "[37mGET /ListOfRecords HTTP/1.1[0m" 200 -  
127.0.0.1 - - [10/Jun/2020 15:12:53] "[31m[1mPOST /records HTTP/1.1[0m" 405 -  
127.0.0.1 - - [10/Jun/2020 15:13:18] "[37mPOST /records/add HTTP/1.1[0m" 200 -  
127.0.0.1 - - [10/Jun/2020 15:13:26] "[37mPOST /records/add HTTP/1.1[0m" 200 -  
127.0.0.1 - - [10/Jun/2020 15:14:43] "[37mPOST /records/add HTTP/1.1[0m" 201 -  
127.0.0.1 - - [10/Jun/2020 15:15:57] "[37mPUT /records/record7 HTTP/1.1[0m" 201 -  
127.0.0.1 - - [10/Jun/2020 15:16:32] "[37mDELETE /records/record2 HTTP/1.1[0m" 200 -  
127.0.0.1 - - [10/Jun/2020 15:16:53] "[31m[1mDELETE /records HTTP/1.1[0m" 405 -  
127.0.0.1 - - [10/Jun/2020 15:16:58] "[37mGET /records HTTP/1.1[0m" 200 -  
127.0.0.1 - - [10/Jun/2020 15:17:54] "[37mGET /records HTTP/1.1[0m" 200 -
```

Postać końcowa przechwycona w programie Wireshark

Wireshark · Śledź strumień HTTP (tcp.stream eq 53) · Adapter for loopback traffic capt...

```
GET /records HTTP/1.1
Host: 127.0.0.1:5000
Connection: keep-alive
Postman-Token: e4b9508f-999f-f8ee-ad53-a392076891c1
Cache-Control: no-cache
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/83.0.4103.97 Safari/537.36
Content-Type: application/json
Accept: */*
Sec-Fetch-Site: none
Sec-Fetch-Mode: cors
Sec-Fetch-Dest: empty
Accept-Encoding: gzip, deflate, br
Accept-Language: pl-PL,pl;q=0.9,en-US;q=0.8,en;q=0.7

HTTP/1.0 200 OK
Content-Type: application/json
Content-Length: 633
Server: Werkzeug/1.0.1 Python/3.8.0
Date: Wed, 10 Jun 2020 13:16:58 GMT

{"record1":{"Title":"Space Oddity","Year":1969,"Artist":"David
Bowie","Genre":"Folk/Rock","NumberOfTracks":10,"Length":"45:12"},"record4":
{"Title":"In Colour","Year":2015,"Artist":"Jamie XX","Genre":"Electronica/House/
FutueGarage","NumberOfTracks":11,"Length":"42:44"},"record5":{"Title":"(Whats the
Story) Morning Glory? ","Year":1995,"Artist":"Oasis","Genre":"Rock/
Britpop","NumberOfTracks":12,"Length":"50:06"},"record6":{"Title":"Raz","Year":
2,"Artist":"Trzy","Genre":"Cztery","NumberOfTracks":5,"Length":"6"},"record7":
{"Title":"Postman1","Year":
2020,"Artist":"Postman2","Genre":"Postman3","NumberOfTracks":7,"Length":"99:99"}}
```

Pakiet 7178. 1 klient pkt(s), 1 server pkt(s), 1 turn(s). Kliknij by wybrać.

Entire conversation (1258 bytes) Pokaż i zapisz dane jako ASCII

Znajdź: Znajdź następny

Odfiltruj ten strumień Drukuj Save as... Wróć Zamknij Pomoc