

# API de Música: SONGIFY

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### Temática (I)

API de música:

/artist

/artist/{id}

/artist/{id}/release

/artist/{id}/release/{id}

Datos recuperados desde MongoDB.



### Temática (II)

API de música:

/artist/{id}/release/{id}/recordings

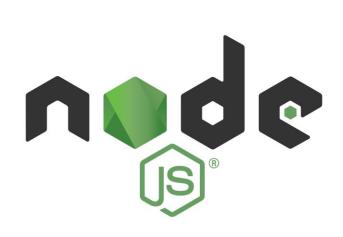
/artist/{id}/release/{id}/recordings/{id}

/artist/{id}/recordings

/artist/{id}/recordings/{id}

Peticiones a la API MusicBrainz.

### Tecnologías utilizadas





### Peticiones a otro servicio web

### Formato JSON

Formato XML

```
| version="1.0" encoding="UTF-8"?|
| cmetadata xmlns="http://musicbrainz.org/ns/mmd-2.0#">
| cartist id="cc197bad-dc9c-440d-a5b5-d52ba2e14234" type="Group" type-id="e431f5f6-b5d2-343d-8b36-72607fffb74b">
| cname>Coldplay</name>
| csort-name>Coldplay</sort-name>
| cisni>0000000011551394X</isni>
| cisni>0000000011551394X</isni>
| country>GB</country>
| carea id="8a754a16-0027-3a29-b6d7-2b40ea0481ed">
| cname>United Kingdom</name>
| ciso-3166-1-code-list>
| ciso-3166-1-code>CB</ir>
| ciso-3166-1-code-list>
| ciso-3166-1-code-list>
| ciso-3166-1-code-list>
| clame>United Kingdom</par>
| chame> (Area)
| chame> (Area)
```

# Interfaz REST que ofrece operaciones CRUD (I)

```
post:
    tags:
        - artist
        summary: POST a new artist
    description: Creates a new artist based on the information provided by the user
    requestBody:
        required: true
        content:
        application/json:
        schema:
        $ref: "#/components/schemas/artist"
```

```
tags:
- artist
summary: PUT one artist of the API
description: Updates all or part of the information of the specified artist
```

```
delete:
tags:
- artist
summary: DELETE one artist of the API and all their releases
description: Deletes all the information of the specified artist
```

## Interfaz REST que ofrece operaciones CRUD (II)

Formato JSON

Formato XML

```
{
    "_id": "6475e94e2814b79e36bab29a",
    "id": "a4ac255f-9775-4c16-8642-7f51502e45dd",
    "type": "Person",
    "name": "Stephen King",
    "gender": "male",
    "area": "United States",
    "begin": "1947-09-21",
    "url_release": "localhost:3000/api/v1/artist/6475e94e2814b79e36bab29a/release"
},
```

### Colecciones de la base de datos

songify.release songify.artist \_id: ObjectId('647517df16f1da255775b500') \_id: ObjectId('647517f616f1da255775b8ea') id: "24f1766e-9635-4d58-a4d4-9413f9f98a4c" id: "03082446-54ca-4f5f-a0a8-a19fa918be9b" type: "Person" title: "Harry Potter ja liekehtivä pikari" name: "Johann Sebastian Bach" date: "2013" gender: "male" country: "FI" area: "Germany" language: "fin" begin: "1685-03-21" id\_artist: "569c0d90-28dd-413b-83e4-aaa7c27e667b" end: "1750-07-28"

### Paginación de los datos (parámetro next)

```
{
    "_id": "6475e94e2814b79e36bab299",
    "id": "f1bedf1f-4445-4651-9c35-f4a3f3860a13",
    "type": null,
    "name": "sfgfsg",
    "gender": "male",
    "area": "Italy",
    "begin": "1813-10-10",
    "end": "1901-01-27",
    "url_release": "localhost:3000/api/v1/artist/6475e94e2814b79e36bab299/release"
}
],
"next": "6475e94e2814b79e36bab299"
```

### Filtrado de los datos (parámetro gender)

GET v http://localhost:3000/api/v1/artist?gender=male

```
"_id": "6475e94e2814b79e36bab28b",
"id": "27870d47-bb98-42d1-bf2b-c7e972e6befc",
"type": "Person",
"name": "George Frideric Handel",
"gender": "male",
"area": "United Kingdom",
"begin": "1685-02-23",
"end": "1759-04-14",
"url_release": "localhost:3000/api/v1/artist/6475e94e2814b79e36bab28b/release"
"_id": "6475e94e2814b79e36bab28c",
"id": "ad79836d-9849-44df-8789-180bbc823f3c",
"type": "Person",
"name": "Antonio Vivaldi",
"gender": "male",
"area": "Italy",
"begin": "1678-03-04",
"end": "1741-07-28",
"url_release": "localhost:3000/api/v1/artist/6475e94e2814b79e36bab28c/release"
```

### Ejemplo de uso de cliente (I)

```
Enter the URL: http://localhost:3000/api/v1/artist/6475e94e2814b79e36bab28a
Response (JSON): {
   id: '6475e94e2814b79e36bab28a',
  id: '01809552-4f87-45b0-afff-2c6f0730a3be',
  type: 'Person',
  name: 'Elvis Presley',
  gender: 'male',
  area: 'United States',
  begin: '1935-01-08',
  end: '1977-08-16',
  url release: 'localhost:3000/api/v1/artist/6475e94e2814b79e36bab28a/release'
```

### Ejemplo de uso de cliente (II)

```
Enter the HTTP method (GET, DELETE, PUT, or POST), or type "exit" to quit: POST

Enter the URL: http://localhost:3000/api/v1/artist

Enter the JSON payload: {"id": "1", "type": "Person", "name": "Bzrp", "gender": "male", "area": "Argentina", "begin": "1998-08-29"}

Response (JSON): { acknowledged: true, insertedId: '64792fd32245ccc9188d21c5' }
```