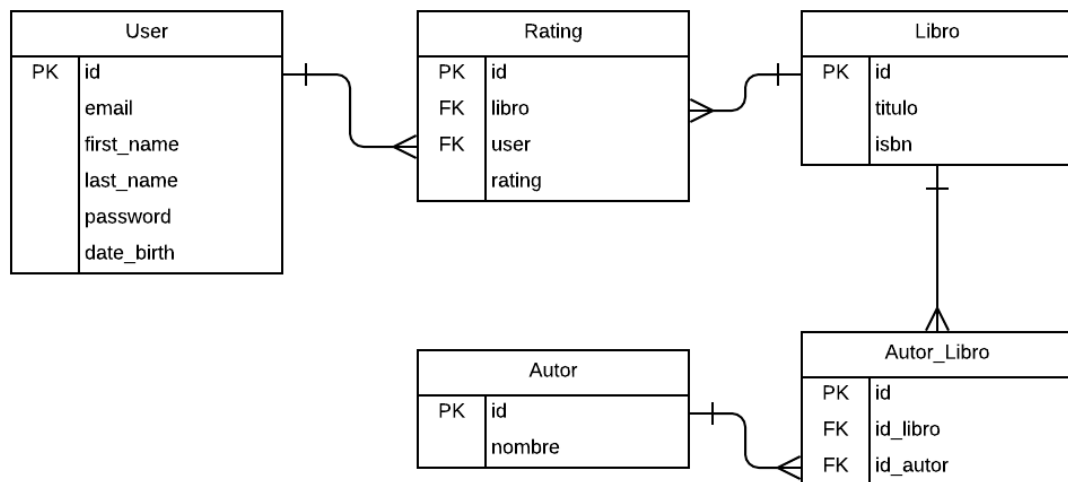


FACULTAD DE INGENIERIA EN ELECTRICIDAD Y COMPUTACION  
DESARROLLO DE APLICACIONES WEB  
I TÉRMINO 2019  
TALLER 5

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## Reporte

### 1. Modelo lógico



### 2. Descripción del API REST

Se usó Django Rest Framework para la API REST. Esta API REST expone los datos de los autores y libros, y las páginas acceden a la API mediante llamadas AJAX.

Api Root / Libro List

## Libro List

OPTIONS

GET

< 1 2 3 ... 138 >

GET /api/books/

```
HTTP 200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

{
  "count": 13714,
  "next": "http://localhost:8000/api/books/?limit=100&offset=100",
  "previous": null,
  "results": [
    {
      "url": "http://localhost:8000/api/books/657/",
      "titulo": "Harry Potter and the Half-Blood Prince (Harry Potter #6)",
      "isbn": "0439785960",
      "authors": [
        {
          "url": "http://localhost:8000/api/authors/652/",
          "nombre": "J.K. Rowling",
          "libros": [
            "http://localhost:8000/api/books/657/",
            "http://localhost:8000/api/books/658/",
            "http://localhost:8000/api/books/659/",
            "http://localhost:8000/api/books/660/",
            "http://localhost:8000/api/books/661/",
            "http://localhost:8000/api/books/662/",
            "http://localhost:8000/api/books/664/",
            "http://localhost:8000/api/books/1349/",
            "http://localhost:8000/api/books/1350/",
            "http://localhost:8000/api/books/1352/",
            "http://localhost:8000/api/books/1780/",
            "http://localhost:8000/api/books/2086/",
            "http://localhost:8000/api/books/2686/",
            "http://localhost:8000/api/books/2686/",
            "http://localhost:8000/api/books/5951/"
          ]
        }
      ]
    }
  ]
}
```

## Lista de Libros

## Libro Instance

DELETE

OPTIONS

GET

GET /api/books/657/

```
HTTP 200 OK
Allow: GET, PUT, PATCH, DELETE, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

{
  "url": "http://localhost:8000/api/books/657/",
  "titulo": "Harry Potter and the Half-Blood Prince (Harry Potter #6)",
  "isbn": "0439785960",
  "authors": [
    {
      "url": "http://localhost:8000/api/authors/652/",
      "nombre": "J.K. Rowling",
      "libros": [
        "http://localhost:8000/api/books/657/",
        "http://localhost:8000/api/books/658/",
        "http://localhost:8000/api/books/659/",
        "http://localhost:8000/api/books/660/",
        "http://localhost:8000/api/books/661/",
        "http://localhost:8000/api/books/662/",
        "http://localhost:8000/api/books/664/",
        "http://localhost:8000/api/books/1349/",
        "http://localhost:8000/api/books/1350/",
        "http://localhost:8000/api/books/1352/",
        "http://localhost:8000/api/books/1780/",
        "http://localhost:8000/api/books/2086/",
        "http://localhost:8000/api/books/2686/",
        "http://localhost:8000/api/books/2686/",
        "http://localhost:8000/api/books/5951/"
      ]
    }
  ]
}
```

## Detalle de un Libro

Django REST framework admin

Api Root / Autor List / Autor Instance

## Autor Instance

DELETE OPTIONS GET

GET /api/authors/652/

```

HTTP 200 OK
Allow: GET, PUT, PATCH, DELETE, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

{
  "url": "http://localhost:8000/api/authors/652/",
  "nombre": "J.K. Rowling",
  "libros": [
    "http://localhost:8000/api/books/657/",
    "http://localhost:8000/api/books/658/",
    "http://localhost:8000/api/books/659/",
    "http://localhost:8000/api/books/660/",
    "http://localhost:8000/api/books/661/",
    "http://localhost:8000/api/books/662/",
    "http://localhost:8000/api/books/664/",
    "http://localhost:8000/api/books/1349/",
    "http://localhost:8000/api/books/1350/",
    "http://localhost:8000/api/books/1352/",
    "http://localhost:8000/api/books/1780/",
    "http://localhost:8000/api/books/2086/",
    "http://localhost:8000/api/books/2685/",
    "http://localhost:8000/api/books/2686/",
    "http://localhost:8000/api/books/5951/",
    "http://localhost:8000/api/books/5952/",
    "http://localhost:8000/api/books/5953/",
    "http://localhost:8000/api/books/5956/"
  ]
}

```

### Detalle de un Autor

### 3. Descripción de la Base de Datos no relacional: estructura, motor de la noRDBMS.

La base de datos no relacional se implementó en MongoDB Atlas, y se accedió a ella desde Django mediante pymongo, para extraer las calificaciones históricas de los libros.

La base contiene una única colección con los datos de todos los libros, y se usa el ISBN para buscar un libro específico.

Los datos fueron cargados a la base de datos desde el TXT original mediante un script de Python que se conecta a la base de datos y procesa el archivo línea por línea, insertando un elemento nuevo en la colección.

```

1 import pymongo
2
3 client = pymongo.MongoClient(
4     "mongodb+srv://root:root@cluster0-pmsyg.mongodb.net/test?retryWrites=true&w=majority")
5 libros = client.testdb.libros
6
7 with open("historico.txt") as f:
8     next(f) # Skip header
9     for line in f:
10         d = line.strip().split("|")
11         libros.insert_one({"titulo": d[0], "autores": d[1], "isbn": d[2], "calificacion_promedio": float(d[3])})
12

```

### Script para poblar la noRDBMS

## testdb.libros

COLLECTION SIZE: 2.1MB TOTAL DOCUMENTS: 13714 INDEXES TOTAL SIZE: 188KB

Find Indexes Aggregation

INSERT DOCUMENT

FILTER {"filter":"example"}

Find

Reset

QUERY RESULTS 1-20 OF MANY

```
{
  "_id": "ObjectId(\"5d5f33d9f2f8f7bff696bec4\")",
  "titulo": "Harry Potter and the Half-Blood Prince (Harry Potter #6)",
  "autores": "J.K. Rowling-Mary GrandPré",
  "isbn": "0439785968",
  "calificacion_promedio": 4.56
}
```

```
{
  "_id": "ObjectId(\"5d5f33d9f2f8f7bff696bec5\")",
  "titulo": "Harry Potter and the Order of the Phoenix (Harry Potter #5)",
  "autores": "J.K. Rowling-Mary GrandPré",
  "isbn": "0439358678",
  "calificacion_promedio": 4.49
}
```

```
{
  "_id": "ObjectId(\"5d5f33d9f2f8f7bff696bec6\")",
  "titulo": "Harry Potter and the Sorcerer's Stone (Harry Potter #1)",
  "autores": "J.K. Rowling-Mary GrandPré",
  "isbn": "0439554934",
  "calificacion_promedio": 4.47
}
```



*Datos cargados en la noRDBMS en línea*

## 4. Evidencia de la implementación de los requerimientos Req1, Req2 y Req3.

### a. Req1

GoodReads Inicio Libros Autores

## Lista de autores

- J.K. Rowling
- Mary GrandPré
- W. Frederick Zimmerman
- Douglas Adams
- Stephen Fry
- Bill Bryson
- William Roberts
- J.R.R. Tolkien
- Alan Lee
- Chris Smith
- Christopher Lee
- Richard Taylor
- Jude Fisher
- James Hamilton
- Paterson
- Dave Thomas
- David Heinemeier Hansson
- Leon Breedt
- Mike Clark
- Thomas Fuchs
- Andreas Schwarz
- Gary Paulsen
- Donna Ickes
- Edward Sciranko
- ...

(...)

- Peter Moon
- Preston B. Nichols
- Nina Helms
- Paul Karasik
- David Mazzucchelli
- Bob Callahan
- Jared Diamond
- Stephen Leeb
- Glen C. Strathy

< Anterior Siguiente >

The Lord of the Rings / The Hobbit 4.59/5.0

J.R.R. Tolkien 4-Book Boxed Set: The Hobbit and The Lord of the Rings 4.59/5.0

The Return of the King (The Lord of the Rings #3) 4.52/5.0

The Return of the King (The Lord of the Rings #3) 4.52/5.0

El retorno del rey (El señor de los anillos #3) 4.52/5.0

The Return of the King (The Lord of the Rings #3) 4.52/5.0

The Return of the King (The Lord of the Rings #3) 4.52/5.0

The Return of the King (The Lord of the Rings #3) 4.52/5.0

The Lord of the Rings Millennium Edition Boxed Set (The Lord of the Rings #1-3) 4.49/5.0

The Lord of the Rings (The Lord of the Rings #1-3) 4.49/5.0

The Lord of the Rings (The Lord of the Rings #1-3) 4.49/5.0

The Lord of the Rings (The Lord of the Rings #1-3) 4.49/5.0

The Lord of the Rings (The Lord of the Rings #1-3) 4.49/5.0

The Lord of the Rings 4.49/5.0

The Lord of the Rings (The Lord of the Rings #1-3) 4.49/5.0

The Lord of the Rings (The Lord of the Rings #1-3) 4.49/5.0

The Lord of the Rings- 3 volumes set (The Lord of the Rings #1-3) 4.49/5.0

The Lord of the Rings Box Set 4.49/5.0

The Lord of the Rings (The Lord of the Rings #1-3) 4.49/5.0

The Lord of the Rings (The Lord of the Rings #1-3) 4.49/5.0

The Lord of the Rings (The Lord of the Rings #1-3) 4.49/5.0

Pictures by J.R.R. Tolkien 4.48/5.0

The Two Towers (The Lord of the Rings #2) 4.44/5.0

Les Deux Tours (Le Seigneur des Anneaux #2) 4.44/5.0

魔戒三部曲：雙城奇譚 4.44/5.0

**b. Req2**

- Dave Thomas
- David Heinemeier Hansson
- Leon Breedt
- Mike Clark
- Thomas Fuchs
- Andreas Schwarz

Rating

3

Calificar

*Formulario de calificación. Sólo aparece en un libro si hay un usuario con sesión iniciada y el usuario aún no ha calificado ese libro*

**c. Req3**

## Perfil de admin

### Libros calificados

- [Programming Ruby: The Pragmatic Programmers' Guide](#): 5/5
- [Agile Web Development with Rails: A Pragmatic Guide](#): 3/5
- [War and Peace](#): 4/5

*Perfil de usuario con la lista de libros calificados*