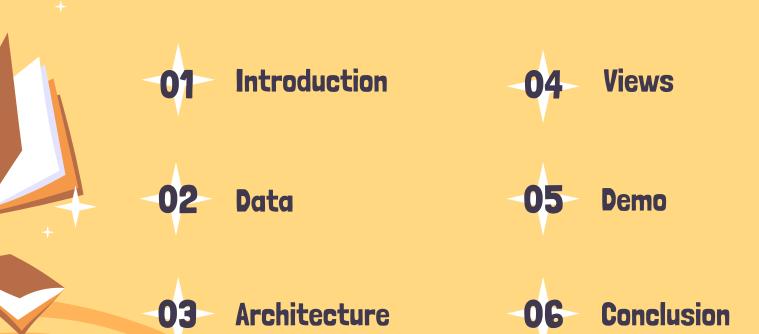


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Table of Contents





Introduction



Goal

Develop a book information system with the goal of exposing and managing all the information in the system.



Vision

Obtain an information system capable of serving as a book display and able to manage the read books, also taking into account their various information.





02

Data

Data

Origin: Kaggle - CSV File About 11 000 books from GoodReads.com

Dataset information:

- Book title and authors;
- Rating and number of reviews;
- ISBN;
- Number of pages and book language;

Later we added other information such as categories and a variable for the user to mark the book as read.



Dataset Flow





Finding the right dataset for the application objective





Conversion

Create a script that can convert data from CSV to N-Triples





Added info

Adding the new information ("has_seen" and "genre")





GraphDB

Import the .nt file into GraphDB

















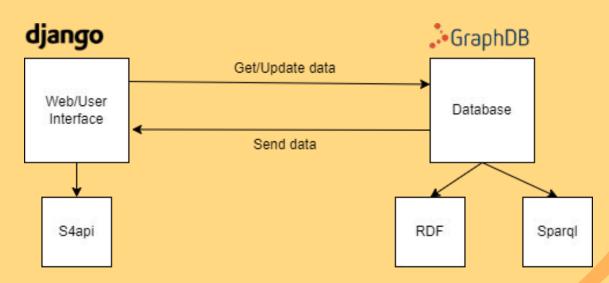


03

Architecture

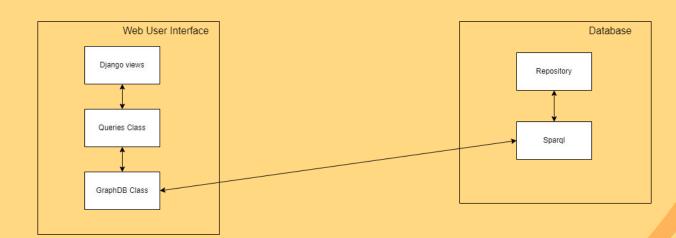
Architecture

General Architecture



Architecture

Workflow Architecture







04

Views

Views

The user can check the existing books in several ways. Each page returns a sortable table of the specified books.

- By Categories:
 - \circ Al
 - Good (Rating >4.5)
 - Bad (Rating <3.5)
 - Popular (Reviews >10000)
 - Long (Pages >1000)
 - Short (Pages <1000)
 - Read books
- By Author
- From the Search bar



```
path('admin/', admin.site.urls),
path('', views.home, name='home'),
path('home/', views.home, name='home'),
path('books/', views.books, name='books'),

path('books/<str:book_isbn>/', views.book, name='book'),
path('update/<str:book_isbn>/', views.update, name='update'),
path('books/authors/<str:author_name>/', views.author, name='author'),

path('categories/good/', views.good_books, name='good_books'),
path('categories/bad/', views.bad_books, name="bad_books"),
path('categories/popular/', views.popular_books, name="popular_books"),
path('categories/long/', views.long_books, name="long_books"),
path('categories/short/', views.long_books, name="short_books"),
path('categories/read/', views.seen_books, name="read_books"),
path('search/', views.search_books, name="search_books"),
```





Conclusion



With this project we were able to learn how to interact with data, since the beginning of the process with the conversion until their use on the UI.

Thus, we developed a functional user library, able to show several thousand books with filters, sorts and search functions implemented.

Regarding future work, we would like to implement authentication and authorization and an admin view to do the CRUD operations.

