**Build a RESTful API for managing a library catalog**

**Tools:**

Django

Django Rest Framework

PostgreSQL Database

**Going to Refer:**

<https://www.django-rest-framework.org/>

<https://docs.djangoproject.com/en/5.0/>

**Models:**

*Author*

1. authorname
2. Bio

*Genre*

1. genrename

*Book*

1. booktitle
2. language
3. bookdescription
4. publicationdate
5. availability\_status
6. author(forigenkey)
7. genre

**API Endpoints for Visitors:(JSON Format)**

* Search and view Books based on author name or genrename
* search and view author bio

**API Endpoints for librarians:(JSON Format)**

* Search and view Books based on author name or genrename
* search and view author bio
* Add/Edit/Delete Books (Token authentication for Librarians to add/edit/delete books)

**API Endpoints for mainadmin(or superuser):(JSON Format)**

* Search and view Books based on author name or genrename
* search and view author bio
* Add/Edit/Delete Books,author name , genrename
* Add/Edit/Delete/view Users,Librarians
* superuser access django admin panel

**Document the API endpoints**

<https://www.django-rest-framework.org/topics/documenting-your-api/>

Swagger - they used.

I need to study this and do

**unit tests for the API endpoints**

<https://www.django-rest-framework.org/api-guide/testing/>

I need to study this and do