📚 Book Management REST API Documentation

# 🚀 Base URL

/api/

# 🔐 Authentication

Uses JWT Authentication.

## Register

POST /api/auth/register/

Body:

{  
 "username": "user123",  
 "email": "user@example.com",  
 "password": "securepassword"  
}

## Login

POST /api/auth/login/

Body:

{  
 "username": "user123",  
 "password": "securepassword"  
}

## Refresh Token

POST /api/auth/token/refresh/

Body:

{  
 "refresh": "your\_refresh\_token"  
}

# 📖 Book Endpoints

## List All Books

GET /api/books/

## Retrieve a Single Book

GET /api/books/{id}/

## Create a New Book

POST /api/books/

Body:

{  
 "title": "Clean Code",  
 "author": 1,  
 "genre": 3,  
 "published\_date": "2008-08-01"  
}

## Update a Book

PUT /api/books/{id}/

## Delete a Book

DELETE /api/books/{id}/

# 👤 Author Endpoints

## List Authors

GET /api/authors/

## Create Author

POST /api/authors/

Body:

{  
 "name": "Robert C. Martin"  
}

# 🏷️ Genre Endpoints

## List Genres

GET /api/genres/

## Create Genre

POST /api/genres/

Body:

{  
 "name": "Programming"  
}

# 🔍 Search & Filtering

Filter by author, genre, or published\_date:  
GET /api/books/?author=1&genre=2

Search by title:  
GET /api/books/?search=code

Paginate results:  
GET /api/books/?page=2&page\_size=5

# 🧪 Example Book Response

{  
 "id": 1,  
 "title": "Atomic Habits",  
 "author": "James Clear",  
 "genre": "Self-help",  
 "published\_date": "2018-10-16"  
}

# ✅ Status Codes

|  |  |
| --- | --- |
| Code | Description |
| 200 | OK |
| 201 | Created |
| 204 | No Content (Deleted) |
| 400 | Bad Request |
| 401 | Unauthorized |
| 403 | Forbidden |
| 404 | Not Found |

# 🛠️ Tech Stack

- Django & Django REST Framework  
- JWT Authentication (djangorestframework-simplejwt)  
- PostgreSQL / SQLite  
- Swagger / ReDoc (optional)