Library Management System API Documentation

- **Project Description** :-

The Library Management System API simplifies the management of library resources by providing a CRUD operations api on books, user, and Borrowing book details. This API enables you to create, read, update, and delete records within your library's database, making it easier to track and maintain your collection.

- **Install dependency** :- from requirement.txt
    1. Djnago
    2. Django-rest framework

- **Endpoints** :-

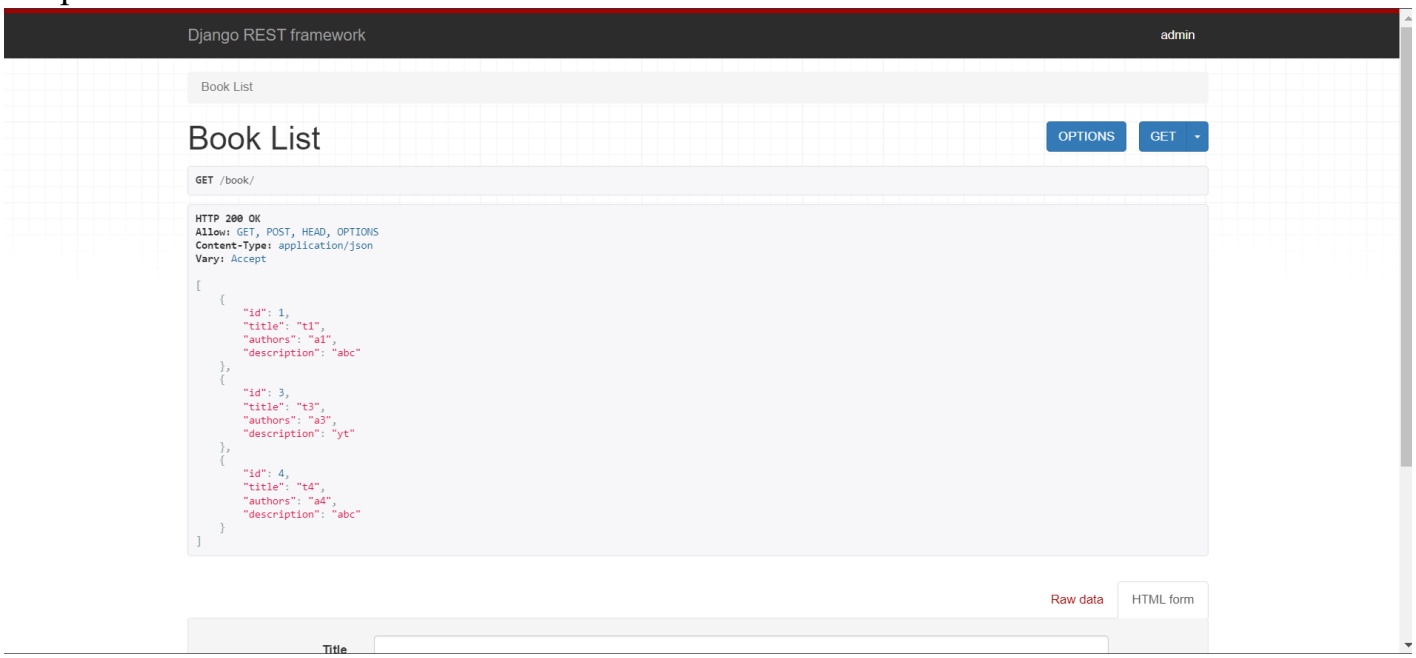
Books

GET/POST /api/books/

Add new book in library

Retrieve a list of all books in the library..

Response:



PUT /api/books/

Update/delete a book in the library.

Parameters:

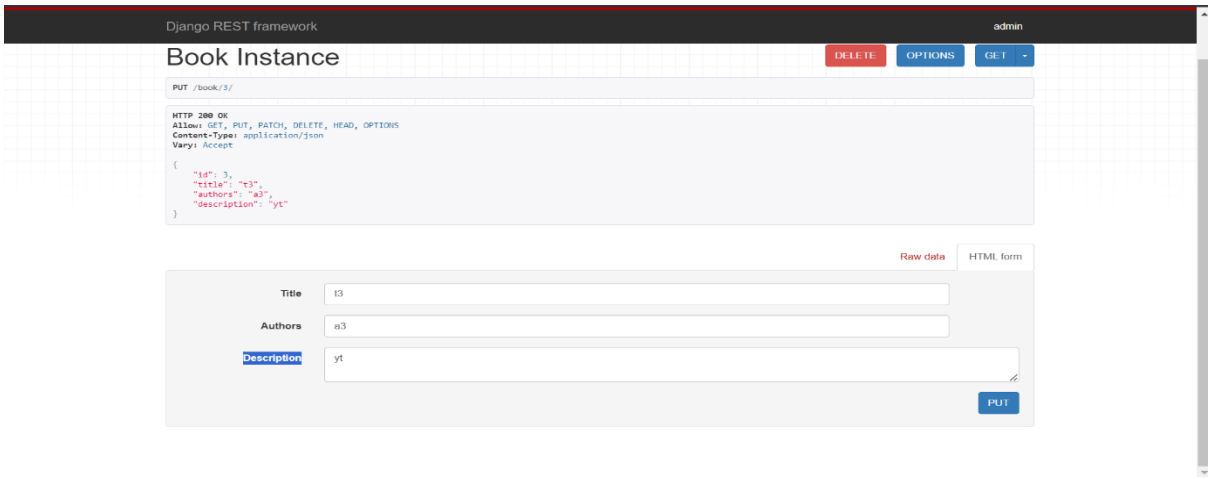
title (required): Title of the book.

author (required): Author of the book.

Description: Book Description

Response:

201 Created: New book details in JSON format. {"id":3,"title":"t3","authors":"a3","description":"yt"}



User

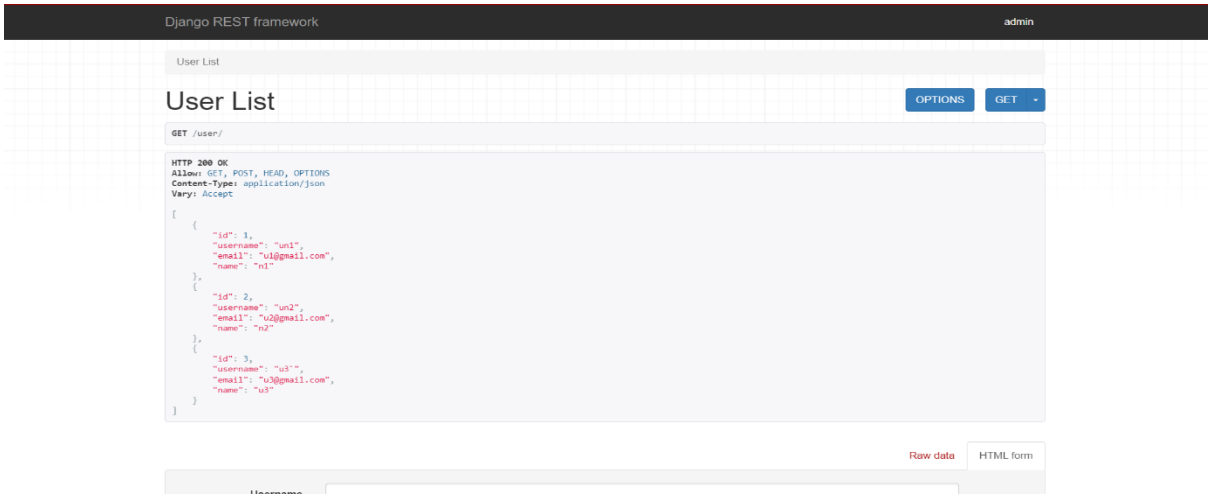
GET/POST /api/members/

Retrieve and create a list of all library user.

Response:

200 OK: List of user in JSON format.

Request:
[{"id":1,"username":"un1","email":"u1@gmail.com","name":"n1"},{"id":2,"username":"un2","email":"u2@gmail.com","name":"n2"},{"id":3,"username":"u3`","email":"u3@gmail.com","name":"u3"}]



PUT/DELETE /api/user/

Update and delete a new user.

Parameters:

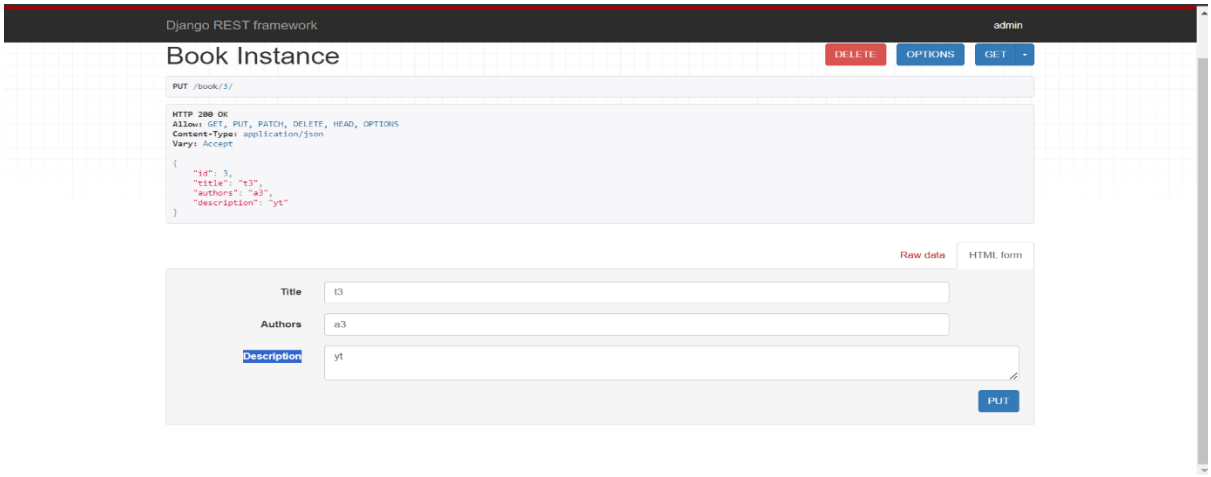
username (required):

(required): Author of the book.

Description: Book Description

Response:

201 Created: New book details in JSON format. {"id":3,"title":"t3","authors":"a3","description":"yt"}



BorrowingBook

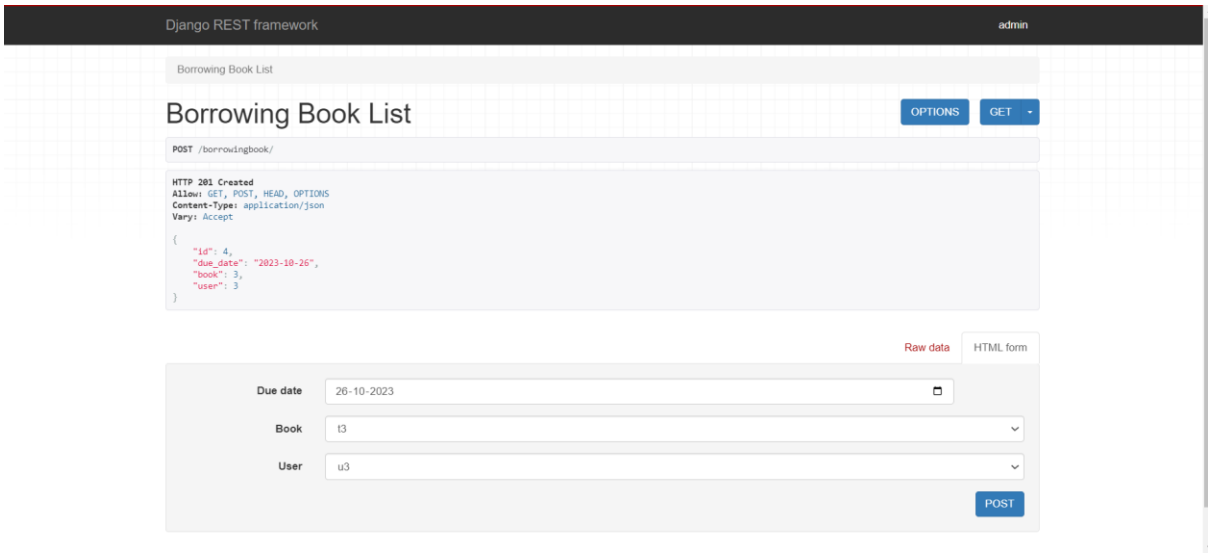
GET /POST/api/BorrowingBook/

Retrieve a list of all library borrowing book details.

Response:

200 OK: List of borrowing book details.in JSON format.

Request:
{"id":1,"due_date":"2023-10-30","book":1,"user":1}



PUT/DELETE /api/BorroewingBook/

Update and delete a new user.

Parameters:

Book id(required):

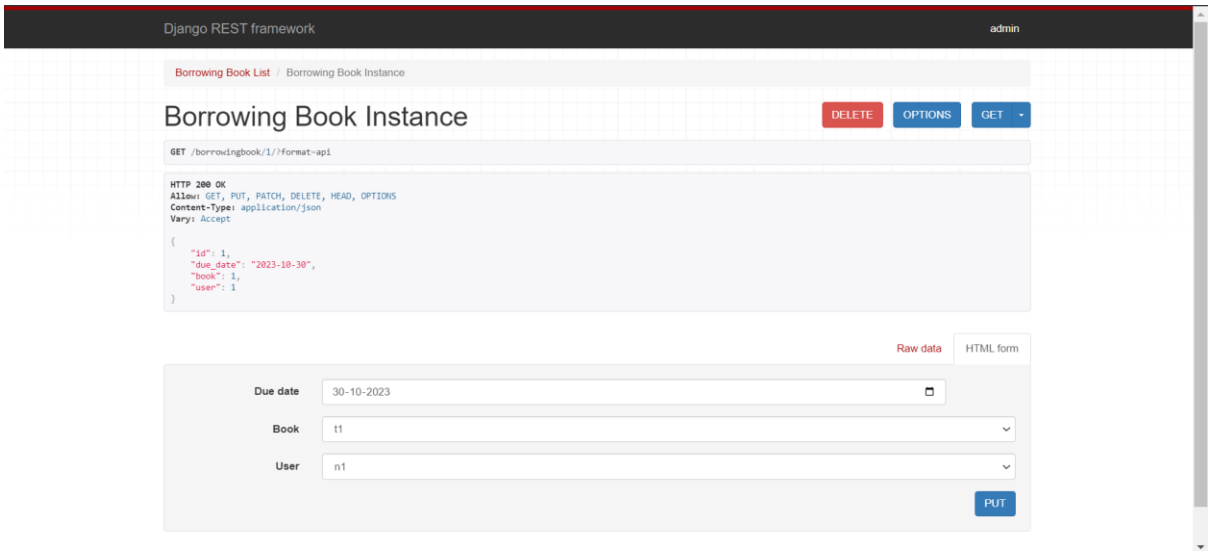
User if (required): Author of the book.

Due date ; return date of the book

Response:

201 Created: New book details in JSON format.

[{"id":1,"due_date":"2023-10-30","book":1,"user":1},{"id":3,"due_date":"2023-11-01","book":3,"user":3},{"id":4,"due_date":"2023-10-26","book":3,"user":3}]



- **<u>Things had been learned.:-</u>**

1. Working of API,
2. Serializers
3. Data conversion from python to Json
4. Viewset and generics diff.
5. Django rest Framework
6. django Rest Routerwork
7. HTTP methods
8. Pep 8