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Library System API 1.0.0 OAS 3.0

API for managing libraries, books, bookings, ratings, and users.

Servers

http://localhost:8080/api

book

GET `/books/{id}/ratings` Get ratings for a book

Parameters Try it out

Name	Description
id * required `string` *(path)*	id

Responses

Code	Description	Links
200	List of ratings Media type application/json Controls `Accept` header. **Example Value** Schema	*No links*

Code	Description	Links

```
[
  {
    "id": "string",
    "book_id": "string",
    "user_id": "string",
    "rating": 5
  }
]
```

POST /books Create a new book

Parameters Try it out

No parameters

Request body required application/json

Example Value Schema

```
{
  "id": "string",
  "library_id": "string",
  "author": "string",
  "title": "string",
  "isbn": "string",
  "image": "string",
  "publisher": "string",
  "short_description": "string",
  "published_year": 0
}
```

Responses

Code	Description	Links
201	Book created	*No links*

PUT /books/{id} Update a book

Parameters Try it out

Name	Description
id * required string *(path)*	id

Request body required

application/json

Example Value Schema

```
{
  "id": "string",
  "library_id": "string",
  "author": "string",
  "title": "string",
  "isbn": "string",
  "image": "string",
  "publisher": "string",
  "short_description": "string",
  "published_year": 0
}
```

Responses

Code	Description	Links
200	Book updated	*No links*

DELETE `/books/{id}` Delete a book

Parameters

Try it out

Name	Description
id * required string *(path)*	id

Responses

Code	Description	Links
204	Book deleted	*No links*

library

GET `/libraries/{id}/books` Get all books in a library

Parameters

Try it out

Name	Description
id * required `string` *(path)*	id

Responses

Code	Description	Links
200	List of books Media type **application/json** Controls `Accept` header. **Example Value** Schema	*No links*


```
[
  {
    "id": "string",
    "library_id": "string",
    "author": "string",
    "title": "string",
    "isbn": "string",
    "image": "string",
    "publisher": "string",
    "short_description": "string",
    "published_year": 0
  }
]
```

POST `/libraries` Create a new library

Parameters Try it out

No parameters

Request body required application/json

Example Value Schema

```
{
  "id": "string",
  "book_id": "string",
  "user_id": "string",
  "start_date": "2025-05-03",
  "end_date": "2025-05-03"
}
```

Responses

Code	Description	Links
201	Library created	*No links*

booking

POST `/bookings` Create a new booking

Parameters Try it out

No parameters

Request body required application/json

Example Value Schema

```
{
  "id": "string",
  "book_id": "string",
  "user_id": "string",
  "start_date": "2025-05-03",
```

```
  "end_date": "2025-05-03"
}
```

Responses

Code	Description	Links
201	Booking created	*No links*

PUT `/bookings/{id}` Update a booking

Parameters

Try it out

Name	Description
id * required `string` *(path)*	id

Request body required

application/json

Example Value Schema

```
{
  "id": "string",
  "book_id": "string",
  "user_id": "string",
  "start_date": "2025-05-03",
  "end_date": "2025-05-03"
}
```

Responses

Code	Description	Links
200	Booking updated	*No links*

DELETE `/bookings/{id}` Delete a booking

Parameters Try it out

Name	Description
id * required `string` *(path)*	id

Responses

Code	Description	Links
204	Booking deleted	*No links*

rating

GET `/books/{id}/ratings` Get ratings for a book

Parameters Try it out

Name	Description
id * required `string` *(path)*	id

Responses

Code	Description	Links
200	List of ratings Media type **application/json**	*No links*

Code	Description	Links
	Controls `Accept` header.	

Example Value Schema

```
[
  {
    "id": "string",
    "book_id": "string",
    "user_id": "string",
    "rating": 5
  }
]
```

POST `/ratings` Submit a new rating

Parameters Try it out

No parameters

Request body required application/json

Example Value Schema

```
{
  "id": "string",
  "book_id": "string",
  "user_id": "string",
  "rating": 5
}
```

Responses

Code	Description	Links
201	Rating submitted	*No links*

PUT `/ratings/{id}` Edit a rating

Parameters Try it out

Name	Description
id * required string *(path)*	id

Request body required

application/json

Example Value Schema

```
{
  "id": "string",
  "book_id": "string",
  "user_id": "string",
  "rating": 5
}
```

Responses

Code	Description	Links
200	Rating updated	*No links*

DELETE `/ratings/{id}` Delete a rating

Parameters

Try it out

Name	Description
id * required string *(path)*	id

Responses

Code	Description	Links
204	Rating deleted	*No links*

user

GET `/users/{id}` Get user details

Parameters

Try it out

Name	Description
id * required `string` *(path)*	id

Responses

Code	Description	Links
200	User details Media type **application/json** Controls `Accept` header. **Example Value** Schema `{ "id": "string", "first_name": "string", "last_name": "string", "email": "string", "role": "user" }`	*No links*

Schemas

Book {

id	string
library_id	string
author	string
title	string
isbn	string
image	string($binary)
publisher	[...]
short_description	[...]
published_year	[...]

}

Booking {

id	[...]
book_id	string
user_id	string
start_date	string($date)
end_date	string($date)

}

Rating {

id	string
book_id	string
user_id	string
rating	integer *minimum: 1* *maximum: 5*

}

User {

```
    id                      string
    first_name              string
    last_name               string
    email                   string
    role                    string
                        Enum:
                            Array [ 2 ]
}
```

Library {

```
    id                      string
    name                    string
    address                 string
}
```