

Library Management API (1.0.0)

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API documentation for the Library Management System

Books

Book management

Add a new book

REQUEST BODY SCHEMA: application/json

title	string
required	
author	string
required	
isbn	string
required	
quantity	integer
shelf_location	string

Responses

— 201 Book created successfully

— 400 Invalid request

POST /books

Request samples

Payload

Content type

application/json

Copy

```
{
  "title": "string",
  "author": "string",
  "isbn": "string",
  "quantity": 0,
  "shelf_location": "string"
}
```

Get all books

Responses

— 200 List of books

GET /books

Search for books by title, author, or ISBN

QUERY PARAMETERS

<code>q</code> <code>required</code>	string Search term (title, author, or ISBN)
---	--

Responses

— **200** Matching books

— **429** Too many requests (rate limited)

GET `/books/search`

Get a book by ID

PATH PARAMETERS

<code>id</code> <code>required</code>	integer Book ID
--	--------------------

Responses

— **200** Book details

— 404 Book not found

GET /books/{id}

Update a book by ID

PATH PARAMETERS

id	integer
required	Book ID

REQUEST BODY SCHEMA: application/json

title	string
author	string
isbn	string
quantity	integer
shelf_location	string

Responses

— 200 Book updated successfully

— 404 Book not found

PUT /books/{id}

Request samples

Payload

Content type
application/json

Copy

```
{
  "title": "string",
  "author": "string",
  "isbn": "string",
  "quantity": 0,
  "shelf_location": "string"
}
```

Delete a book by ID

PATH PARAMETERS

id	integer
required	Book ID

Responses

— 200 Book deleted successfully

— 404 Book not found

DELETE /books/{id}

BorrowedBooks

Borrowing process management

Borrow a book for a borrower

PATH PARAMETERS

id required	integer Borrower ID
----------------	------------------------

REQUEST BODY SCHEMA: application/json

book_id required	integer
due_date required	string <date>

Responses

— **201** Book borrowed successfully

— **400** Invalid request

— **404** Borrower or book not found

— 429 Too many requests (rate limited)

POST /borrowed-books/borrowers/{id}/borrow

Request samples

Payload

Content type
application/json

Copy

```
{
  "book_id": 0,
  "due_date": "2019-08-24"
}
```

Return a borrowed book

PATH PARAMETERS

id	integer
required	Borrower ID

REQUEST BODY SCHEMA: application/json

book_id	integer
required	

Responses

— 200 Book returned successfully

— 400 Invalid request

— 404 Loan record not found

PUT /borrowed-books/borrowers/{id}/return

Request samples

Payload

Content type

application/json

Copy

```
{
  "book_id": 0
}
```

List all books currently borrowed by a borrower

PATH PARAMETERS

id	integer
required	Borrower ID

Responses

— 200 List of borrowed books for the borrower

— 404 Borrower not found

GET /borrowed-books/borrowers/{id}/loans

List all overdue borrowed books

Responses

— **200** List of overdue loans

GET /borrowed-books/loans/overdue

Borrowers

Borrower management

Get all borrowers

Responses

— 200 List of borrowers

GET /borrowers

Add a new borrower

REQUEST BODY SCHEMA: application/json

name required	string
email required	string <email>

Responses

— 201 Borrower created successfully

— 400 Invalid request

POST /borrowers

Request samples

Payload

Content type
application/json

Copy

```
{
  "name": "string",
  "email": "user@example.com"
}
```

Get a borrower by ID

PATH PARAMETERS

id	integer
required	Borrower ID

Responses

— 200 Borrower details

— 404 Borrower not found

GET /borrowers/{id}

Update a borrower by ID

PATH PARAMETERS

id	integer
required	Borrower ID

REQUEST BODY SCHEMA: application/json

name	string
email	string <email>

Responses

- 200 Borrower updated successfully
- 404 Borrower not found

PUT /borrowers/{id}

Request samples

Payload

Content type
application/json

Copy

```
{
  "name": "string",
  "email": "user@example.com"
}
```

Delete a borrower by ID

PATH PARAMETERS

id required	integer Borrower ID
----------------	------------------------

Responses

— **200** Borrower deleted successfully

— **404** Borrower not found

DELETE /borrowers/{id}