

Library Management System

Schema Model Details

Book

Field	Data Type
book_id (PK)	String
title	String
quantity	Number
author	String
category	String
isbn	String
publication_date	String
publisher	String
available_books	Number
created_at	Date
updated_at	Date

IssueBooks

Field	Data Type
issue_id (PK)	String
book_id (FK)	String
user_id (FK)	String
issue_date	Date
due_date	Date
return_date	String
status	String
no_of_days	String
fine_amount	String
created_at	Date
updated_at	Date

Admin

Field	Data Type
admin_id (PK)	String
first_name	String
last_name	String
email	String
password	String
phone_no	String
created_at	Date
updated_at	Date

User

Field	Data Type
user_id (PK)	String
first_name	String
last_name	String
email	String
password	String
phone_no	String
address	String
roles	Boolean
joined_date	Date
created_at	Date
updated_at	Date

API's

Users

POST - /api/usersauth/userregister

POST - /api/usersauth/userlogin

GET - /api/users/bookcount/book_id (view stock count of a book)

GET - /api/users/userbooks?page=1&limit=2 (view all books owned by a user)

GET - /api/users/userbooks (view all books owned by a user)

GET - /api/users/user (view signed in user)

GET - /api/books/categorybooks (for getting a category of books)

GET - /api/books/allbooks (view all books)

Admins

POST - /api/adminsauth/adminregister

POST - /api/adminsauth/adminlogin

GET - /api/admins/alladmins (view all admins)

GET - /api/admins/allmembers (view all members)

GET - /api/admins/alllibrarians (view all librarians)

GET - /api/admins/users/allusers (view all users)

POST - /api/admins (add an admin)

GET - /api/admins/admin_id (view an admin)

PUT - /api/admins/admin_id (update an admin)

DELETE - /api/admins/admin_id (delete an admin)

POST - /api/admins/users (add a user)

GET - /api/admins/users/user_id (view a user)

PUT - /api/admins/users/user_id (update a user)

DELETE - /api/admins/users/user_id (delete a user)

Librarians

GET - /api/librarians/userbooks (view details of books owned by a user)

GET - /api/librarians/bookusers/book_id (view details of users who own a book with same id)

GET - /api/librarians/status/pending (for getting pending status user details)

GET - /api/librarians/status/returned (for getting status returned user details)

GET - /api/issuebooks/issue_id (for getting all records in IssueBooks)

POST - /api/issuebooks/issue_id (for adding a record in IssueBooks)

PUT - /api/issuebooks/issue_id (for updating a record in IssueBooks)

DELETE - /api/issuebooks/issue_id (for deleting a record in IssueBooks)

PUT - /api/librarians/fineentry/issue_id (for updating fine amount)

POST - /api/books/book_id (for adding a book)

PUT - /api/librarians/bulkupload (for bulk uploading books)

GET - /api/books/book_id (for getting details of a book)

PUT - /api/books/book_id (for updating a book details)

DELETE - /api/books/book_id (for deleting a book)

PUT - /api/librarians/bulkdelete (for bulk deleting with book id's)