Book API

This API provides endpoints to manage books.

Base URL: /books

GET /

Description: Retrieve a list of books.

- Request:
 - Method: GET
 - Authentication: None required
 - Query Parameters: (Optional) Parameters for filtering books
- Response:
 - Status Code: 200 OK
 - Content Type: application/json
 - Body: Array of books

POST /

Description: Add a new book.

- Request:
 - Method: POST
 - Authentication: Required (Admin)
 - Request Body: Book details
- Response:
 - Status Code: 200 OK

• Content Type: application/json

• Body: New book details

PUT /

Description: (Not Supported)

Response:

• Status Code: 403 Forbidden

• Body: Message indicating PUT operation not supported

DELETE /

Description: (Not Supported)

• Response:

• Status Code: 403 Forbidden

• Body: Message indicating DELETE operation not

supported

GET /:bookId

Description: Retrieve details of a specific book.

• Request:

Method: GET

• Authentication: None required

• Path Parameter: **bookId** - ID of the book

• Response:

• Status Code: 200 OK

Content Type: application/json

• Body: Details of the requested book

POST /:bookId

Description: (Not Supported)

Response:

• Status Code: 403 Forbidden

Body: Message indicating POST operation not supported

PUT /:bookId

Description: Update details of a specific book.

• Request:

• Method: PUT

• Authentication: Required (Admin)

Path Parameter: bookid - ID of the book

Request Body: Updated book details

Response:

• Status Code: 200 OK

• Content Type: application/json

• Body: Updated details of the book

DELETE /:bookId

Description: Delete a specific book.

• Request:

- Method: DELETE
- Authentication: Required (Admin)
- Path Parameter: **bookId** ID of the book
- Response:
 - Status Code: 200 OK
 - Content Type: application/json
 - Body: { "_id": "<bookId>", "success": true }

Issue API

This API provides endpoints to manage book issues.

Base URL: /issues

GET /

Description: Retrieve a list of book issues.

- Request:
 - Method: GET
 - Authentication: Required (User/Admin)
- Response:
 - Status Code: 200 OK
 - Content Type: application/json
 - Body: Array of book issues

POST /

Description: Issue a book to a student.

- Request:
 - Method: POST
 - Authentication: Required (Admin)
 - Request Body: Issue details (book, student)
- Response:
 - Status Code: 200 OK
 - Content Type: application/json
 - Body: Details of the issued book

PUT /

Description: (Not Supported)

- Response:
 - Status Code: 403 Forbidden
 - Body: Message indicating PUT operation not supported

DELETE /

Description: Remove all book issues (for testing).

- Request:
 - Method: **DELETE**
 - Authentication: Required (Admin)
- Response:
 - Status Code: 200 OK

• Content Type: application/json

• Body: Success message

GET /student/

Description: Retrieve a list of issues for the currently authenticated student.

Request:

Method: GET

Authentication: Required (User)

• Response:

Status Code: 200 OK

• Content Type: application/json

• Body: Array of book issues for the student

GET /:issueld

Description: Retrieve details of a specific book issue.

Request:

Method: GET

• Authentication: Required (User/Admin)

Path Parameter: issueld - ID of the issue

Response:

• Status Code: 200 OK

• Content Type: application/json

• Body: Details of the requested book issue

POST /:issueId

Description: (Not Supported)

- Response:
 - Status Code: 403 Forbidden
 - Body: Message indicating POST operation not supported

PUT /:issueld

Description: Mark a book issue as returned.

- Request:
 - Method: PUT
 - Authentication: Required (Admin)
 - Path Parameter: issueld ID of the issue
- Response:
 - Status Code: 200 OK
 - Content Type: application/json
 - Body: Updated details of the returned book issue

DELETE /:issueId

Description: (Not Supported)

- Response:
 - Status Code: 403 Forbidden
 - Body: Message indicating DELETE operation not supported

User API

This API provides endpoints for user authentication and management.

Base URL: /users

OPTIONS /

Description: Enable pre-flight CORS request.

- Request:
 - Method: OPTIONS
- Response:
 - Status Code: 200 OK
 - Body: Empty

GET /

Description: Retrieve a list of all users (Admin access).

- Request:
 - Method: GET
 - Authentication: Required (User/Admin)
- Response:
 - Status Code: 200 OK
 - Content Type: application/json
 - Body: Array of user details

PUT /:userId

Description: Update user details (Admin access).

Request:

• Method: PUT

Authentication: Required (User)

• Path Parameter: userId - ID of the user to update

• Request Body: Updated user details

• Response:

• Status Code: 200 OK

• Content Type: application/json

• Body: Updated user details

PUT /password/:userId

Description: Change user password.

• Request:

Method: PUT

Authentication: Required (User)

 Path Parameter: userId - ID of the user to update password

• Request Body: New password

Response:

Status Code: 200 OK

• Content Type: application/json

• Body: Success message

POST /signup

Description: Register a new user.

• Request:

Method: POST

• Request Body: User details for registration

· Response:

• Status Code: 200 OK

• Content Type: application/json

• Body: Registration success message

POST /login

Description: Login and generate an authentication token.

• Request:

Method: POST

Authentication: Local authentication (username and password)

• Request Body: User login credentials

• Response:

Status Code: 200 OK

• Content Type: application/json

• Body: Authentication token and user information

GET /logout

Description: Logout and destroy the session.

• Request:

Method: GET

• Authentication: Required (User)

• Response:

• Redirect to /

GET /checkJWTtoken

Description: Check the validity of a JWT token.

• Request:

Method: GET

• Authentication: Required (User)

• Response:

• Status Code: 200 OK

• Content Type: application/json

• Body: Token validation status and user information