

A. Authentication Endpoints

1. POST /api/auth/login

Request:

json

```
{
  "username": "string",
  "password": "string"
}
```

Response:

json

```
{
  "token": "jwt_token_string",
  "user": {
    "id": "number",
    "username": "string",
    "email": "string",
    "avatar": "url_string",
    "role": "string"
  }
}
```

2. GET /api/auth/me

Response:

json

```
{
  "user": {
    "id": "number",
    "username": "string",
    "email": "string",
    "avatar": "url_string",
  }
}
```

B. Books Endpoints

3. GET /api/latest-news

Response:

json

```
{
  "news": [
    {
      "id": "number",
      "name": "string",
      "details": "string",
      "coverImage": "string",
      "creationDate": "date-string"
    }
  ],
  "pagination": {
    "page": "number",
    "limit": "number",
    "totalRecords": "number",
    "totalPages": "number"
  }
}
```

4. GET /api/books

GET /api/books?page=1&limit=10&genre=Fiction&search=harry

Query Parameters:

- page (optional): number
- limit (optional): number
- genre (optional): string
- search (optional): string

Response:

json

```
{
  "books": [
    {
      "id": "number",
      "title": "string",
      "author": "string",
      "coverImage": "url_string",
      "rating": "number",

```

```

        "genre": "string",
        "tag": "string",
        "publishedDate": "date_string",
        "available": "boolean"
    }
],

"pagination": {
    "page": "number",
    "limit": "number",
    "totalRecords": "number",
    "totalPages": "number"
}
}

```

5. GET /api/books/{id}

Response:

json

```

{
    "id": "number",
    "title": "string",
    "author": "string",
    "coverImage": "url_string",
    "description": "string", (description and summary are same)
    "rating": "number", ==(separate table)
    "genre": "string",
    "tag": "string",
    "publishedDate": "date_string",
    "publisher": "string",
    "isbn": "string",
    "available": "boolean",
    "audioClip": "url_string_or_null",
    "pdfUrl": "url_string",
    "totalRatings": "number",
    "totalReviews": "number",
    "status": "status",
}

```

6. GET /api/books/{id}/borrow

Request:

json

```
{
  "id": "number"
}
Response:
json
{
  "title": "string",
  "author": "string",
  "coverImage": "string",
  "availableFrom": "date_string",
  "mustReturnBy": "date_string",
}
```

7. POST /api/books/{id}/borrow

Request:

```
json
{
  "id": "number"
}
```

Response:

```
json
{
  "success": "boolean",
  "borrowingDate": ""string,
  "dueDate": "date_string",
  "message": "string"
}
```

C. Library Endpoints

8. GET /api/books/{id}/reviews

Response:

```
json
{
  "reviews": [
    {
      "id": "number",
      "userId": "number",
      "userName": "string",
      "userAvatar": "url_string",
      "rating": "number",

```

```
        "comment": "string",
        "date": "date_string",
        "helpful": "number",
    }
],
"averageRating": "number",
"totalReviews": "number",
"ratingBreakdown": {
    "5": "number",
    "4": "number",
    "3": "number",
    "2": "number",
    "1": "number"
}
}
```

9. POST /api/books/{id}/reviews

Request:

```
json
{
    "userId": "number",
    "rating": "number",
    "comment": "string"
}
```

Response:

```
json
{
    "success": "boolean",
    "reviewId": "number",
    "message": "string"
}
```

10. POST /api/reviews/{id}/helpful

Request:

```
json
{
    "userId": "number",
    "helpful": "boolean"
}
```

Response:

```
json
{
    "success": "boolean",
```

```
    "helpfulCount": "number"
}
```

D. User Library Endpoints

11. GET /api/users/{id}/library

Response:

json

```
{
  "borrowedBooks": [
    {
      "id": "number",
      "title": "string",
      "author": "string",
      "coverImage": "url_string",
      "borrowDate": "date_string",
      "dueDate": "date_string"
    }
  ],
}
```

E. Admin Endpoints

Dashboard

12. GET /api/admin/dashboard/stats

```
{
  "success": "boolean",
  "data": {
    "borrowedBooks": "number",
    "returnedBooks": "number",
    "overdueBooks": "number",
    "totalBooks": "number",
    "newMembers": "number",
    "borrowsPending": "number"
  }
}
```

13. GET /api/admin/dashboard/checkout-stats

```
{
  "success": true,
  "data": {
    "totalBorrowed": "number",
    "totalReturned": "number",
    "totalOverdue": "number",
    "borrowedToday": "number",
    "returnedToday": "number",
    "overdueToday": "number",
    "activeBorrowers": "number"
  }
}
```

14. GET /api/admin/dashboard/overdue-history

```
{
  "success": true,
  "data": [
    {
      "bookId": "number",
      "bookName": "string",
      "username": "string",
      "email": "string",
      "dueDate": "date_string"
    }
  ],
  "pagination": {
    "page": "number",
    "limit": "number",
    "totalRecords": "number",
    "totalPages": "number"
  }
}
```

15. GET /api/admin/dashboard/borrowed-request

```
{
  "success": "boolean",
  "data": [
    {
```

```

        "requestId": "number",
        "bookId": "number",
        "bookName": "string",
        "userName": "string",
        "borrowedDate": "date",
        "returnedDate": "date",
        "status": "string"    // (pending | accepted | rejected)
    }
],
"pagination": {
    "page": "number",
    "limit": "number",
    "totalRecords": "number",
    "totalPages": "number"
}
}

```

15. PATCH /api/admin/dashboard/borrowed-request/{requestId}

Request

```

{
    "status": "string"    // accepted | rejected
}

```

Response

```

{
    "success": "boolean",
    "message": "string"
}

```


Manage Book

16. GET /api/manage-books

Response:

json

```
{
  "books": [
    {
      "id": "number",
      "title": "string",
      "author": "string",
      "coverImage": "url_string",
      "genre": "string",
      "numberofcopy": "number",
      "g
    }
  ],
  "pagination": {
    "page": "number",
    "limit": "number",
    "totalRecords": "number",
    "totalPages": "number"
  }
}
```

17. POST /api/manage-books

Request:

json

```
{
  "title": "string",
  "author": "string",
  "coverImage": "url_string",
  "description": "string",
  "genre": "string",
  "tag": "string",
  "publishedDate": "date_string",
  "publisher": "string",
  "numberOfcopy": "number",
  "isbn": "string",
  "audioClip": "url_string_or_null",
  "pdfUrl": "url_string",
  "status": "status",
}
```

Response

```
{
  "bookId": "number",
  "success": "boolean",
  "message": "string"
}
```

18. PUT /api/manage-books/{bookId}

Request:

json

```
{
  "title": "string",
  "author": "string",
  "coverImage": "url_string",
  "genre": "string",
  "numberOfcopy": "number"
}
```

Response

```
{
  "success": "boolean",
  "message": "string"
}
```

19. DELETE /api/manage-books/{bookId}

Response:

```
json
{
  "success": "boolean",
  "message": "string"
}
```

Manage Category

20. GET /api/category

Response:

```
json
{
  "category": [
    {
      "id": "number",
      "name": "string",
      "slug": "string",
    }
  ],
  "pagination": {
    "page": "number",
    "limit": "number",
    "totalRecords": "number",
    "totalPages": "number"
  }
}
```

21. POST /api/category

Request

```
{
  "name": "string",
  "slug": "string"
}
```

Response

```
{
  "success": "boolean",
  "categoryId": "number",
  "message": "string"
}
```

22. PUT /api/category/{categoryId}

Request

```
{
  "name": "string",
  "slug": "string"
}
```

Response

```
{
  "success": "boolean",
  "categoryId": "number",
  "message": "string"
}
```

23. DELETE /api/category/{categoryId}

```
{
  "success": "boolean",
  "categoryId": "number",
  "message": "string"
}
```

HTTP Status Codes

- 200 - Success
- 201 - Created
- 400 - Bad Request
- 401 - Unauthorized
- 403 - Forbidden
- 404 - Not Found
- 409 - Conflict
- 422 - Validation Error
- 500 - Internal Server Error
- 503 - Service Unavailable

Authentication

Most endpoints require authentication via JWT token in the Authorization header:

Authorization: Bearer <jwt_token>