

API Endpoints For Books-API

- Test request
 - Request type : GET
 - Description : a test request to check if the backend is running
 - Request endpoint : “/info/test”
 - Request format : None
 - Request output : the backend should return a string with “working!” as the content
- Add book request
 - Request type : POST
 - Description : a request to add info about books to the backend
 - Request endpoint : “/info/addBookInfo”
 - Request format (form-data) :

```
{  
  "title": "string",  
  "author": "string",  
  "isbn": "string",  
  "publisher": "string",  
  "subject": "string"  
}
```

The book and cover can be included with the multipart form data if required for upload as :

```
{  
  "book" : "file",  
  "cover" : "file"  
}
```

- Request output : a response holding the info of the book should be given back from the backend. A unique book id will also be generated from the backend and be given in the response.
- Errors would include :
 - “ISBN is required”,
 - “An error occurred while uploading the book”
 - “An error occurred while uploading the cover”
- Get book request
 - Request type : POST
 - Description : a request to get info about books from the backend
 - Request endpoint : “/info/getBookInfo”
 - Request format :


```
{
    "searchType" : " ",      (string)
    "keyword" : " "          (string)
}
```
 - Search Types : inTitle , inAuthor , inPublisher , inIsbn , inSubject
 - Request output : a response holding an array of the books with the keyword should be given back from the backend
- Edit request
 - Request type : POST
 - Description : a request to edit info about books to the backend
 - Request endpoint : “/info/editBookInfo”
 - Request format :


```
{
    "title" : " ",           (string)(required)(Old name)
    "isbn" : " ",            (string)(required)(Old Isbn)
}
```

```

    "newTitle": " ",          (string) (optional)
    "newAuthor": [ ],         (array of strings) (optional)
    "newIsbn": " ",          (string) (optional)
    "newPublisher": " ",      (string) (optional)
    "newPublishingDate": " ", (date) (optional)
    "newEdition": " ",        (string) (optional)
    "newSubject": " "         (string) (optional)
  }

```

- Request output : a response telling the book has been updated will be given back from the backend

- User register:

- Request type : POST
- Description : a request to edit info about books to the backend
- Request endpoint : “/login/register”
- Request format :

```

{
  "username": "string",
  "password": "string",
  "role" : "string" (only 2 options for this, “user” and “admin”) (required)
}

```

- Request output :
“User has been registered”

- User login :

- Request type : POST
- Description : a request to edit info about books to the backend
- Request endpoint : “/login/”
- Request format :

```

{
  "username": "string",

```

```
"password": "string"
}
```

- Request output :

```
{
  "token": "string"
}
```

- Submit cover page:

- Request type : POST
- Description : a request to submit cover pages for books
- Request endpoint : “/info/submitCoverPage”
- Request format :

```
{
  "title": "string",
  "isbn": "string",
  "cover" : "file"
}
```

- Request output :

```
{
  "message": "string",
  "book": {
    "_id": "string",
    "title": "string",
    "author": ["string"],
    "bookID": "string",
    "isbn": "string",
    "publisher": "string",
    "subject": "string",
    "coverPageURL": "string",
    "__v": 0
  }
}
```

```
}  
}
```

- Request cover page:
 - Request type : GET
 - Description : a request to get cover pages for books
 - Request endpoint : “/info/getCoverPage”
 - Request format :

```
{  
  "title": "string",  
  "isbn": "string",  
}
```

- Request output :
Cover page file (if both the book and cover page exist)
- Request Terms and conditions :
 - Request type : GET
 - Description : a request to get TnC for the website
 - Request endpoint : “/info/TnC”
 - Request format :
{ }
 - Request output :
Terms and conditions
- Request for book upload:
 - Request type: POST
 - Description: A request to upload a book
 - Request endpoint: "/info/uploadBook"
 - Request format:

```

{
  "isbn": "string", (required)
  "overwrite": "string",
  (optional , set to "true" for storage overwrite)
  "book": "file" (mulit-part-form-data) (optional)
}

```

- Request output:
"Book uploaded successfully"
- Possible responses:
 - 200: Book uploaded successfully
 - 400: Book already exists in the storage (and overwrite is false or not provided)
 - 404: Book not found in the database
 - 500: An error occurred while uploading the book
- Request for downloading book
 - Request type: GET
 - Description: A request to download a book
 - Request endpoint: "/info/downloadBook"
 - Request format:


```

{
  "isbn": "string"
}

```
 - Request output: The book file if it exists
 - Possible responses:
 - 200: Book download initiated successfully
 - 404: Book does not exist in the storage
 - 500: An error occurred while downloading the book

- Top reads request
 - Request type: GET
 - Description: A request to retrieve the top reads
 - Request endpoint: "/info/topReads"
 - Request format: None

 - Request output:
Array of 10 books sorted with the most number of downloads

 - Possible responses:
 - 200: Top reads retrieved successfully
 - 500: An error occurred while retrieving the top reads

- least reads request
 - Request type: GET
 - Description: A request to retrieve the least reads
 - Request endpoint: "/info/leastReads"
 - Request format: None

 - Request output:
Array of 10 books sorted with the least number of downloads

 - Possible responses:
 - 200: Top reads retrieved successfully
 - 500: An error occurred while retrieving the top reads

- All books request
 - Request type: GET
 - Description: A request to retrieve a list of all books
 - Request endpoint: "/info/allBooks"
 - Request format: None

- Request output:
Array of all the books present in the database
- Possible responses:
 - 200: Top reads retrieved successfully
 - 500: An error occurred while retrieving the top reads
- Delete book request
 - Request type: DELETE
 - Description: A request to delete a certain book
 - Request endpoint: "/info/deleteBook"
 - Request format: None
 - Request output:
Array of all the books present in the database
 - Possible responses:
 - 200: Top reads retrieved successfully
 - 500: An error occurred while retrieving the top reads