

TESTING:

Postman, a platform for testing APIs, was used for testing the Library Service API.
Below are the various endpoints of the API:

ENDPOINTS:

- [GET] Auth/{LicenseKey}
 - This endpoint is used to send a Json Web Token to the client for authentication.
 - Request: <http://localhost/LibraryService/api/auth/KEYABC123>
 - Response: 204 No Content
 - ❖ Response Header: "WWW-Authenticate: Bearer {token}"
- [GET] Books/
 - This endpoint is used to get all books.
 - Request: <http://localhost/LibraryService/api/books/>
 - Response: 200 OK

```
[{"ISBN":"9780062073495","book_name":"Murder on the Orient Express: A Hercule Poirot Mystery","author_name":"Agatha Christie","category_name":"Detective Fiction","book_type":"Hardcover","num_of_pages":"288"}, {"ISBN":"9780441013593","book_name":"Dune","author_name":"Frank Herbert","category_name":"Science-Fiction","book_type":"Paperback","num_of_pages":"704"}, {"ISBN":"9780547928227","book_name":"The Hobbit","author_name":"J. R. R. Tolkien","category_name":"Fantasy","book_type":"Paperback","num_of_pages":"300"}, {"ISBN":"9780553577129","book_name":"The Diary of a Young Girl: The Definitive Edition","author_name":"Anne Frank","category_name":"Diary","book_type":"Paperback","num_of_pages":"400"}, {"ISBN":"9781408855652","book_name":"Harry Potter and the Philosopher's Stone","author_name":"J. K. Rowling","category_name":"Fantasy","book_type":"Paperback","num_of_pages":"342"}]
```

- [GET] Books/{ISBN}

- This endpoint is used to get a specific book.

- Request: <http://localhost/LibraryService/api/books/9780547928227>
- Response: 201 Created

```
{ "ISBN": "9780547928227", "book_name": "The Hobbit", "author_name": "J. R. R. Tolkien", "category_name": "Fantasy", "book_type": "Paperback", "num_of_pages": "300" }
```

➤ [POST] Books/

- This endpoint is used to create a new book and add it to the library's database.
- Request: <http://localhost/LibraryService/api/books/>

```
{  
  "ISBN": "9780547928227",  
  "book_name": "The Hobbit",  
  "author_name": "J. R. R. Tolkien",  
  "category_name": "Epic Fantasy",  
  "book_type": "Paperback",  
  "num_of_pages": "300"  
}
```

- Response: 201 Created

```
{ "ISBN": "9780547928227", "book_name": "The Hobbit", "author_name": "J. R. R. Tolkien", "category_name": "Epic Fantasy", "book_type": "Paperback", "num_of_pages": "300" }
```

➤ [PUT] Books/{ISBN}

- This endpoint is used to update the information of a book within the library's database.
- Request: <http://localhost/LibraryService/api/books/9780547928227>

```
{  
  "book_name": "The Hobbit",  
  "author_name": "J. R. R. Tolkien",  
  "category_name": "Fantasy",  
  "book_type": "Hardcover",  
  "num_of_pages": "300"  
}
```

- Response: 200 OK

```
{ "ISBN": "9780547928227", "book_name": "The Hobbit", "author_name": "J. R. R. Tolkien", "category_name": "Fantasy", "book_type": "Hardcover", "num_of_pages": "300" }
```

➤ [DELETE] Books/{ISBN}

- This endpoint is used to delete a book within the library's database.
 - Request: <http://localhost/LibraryService/api/books/9780547928227>
 - Response: 204 No Content

➤ [GET] Clients/

- This endpoint is used to retrieve the list of clients.
 - Request: <http://localhost/LibraryService/api/clients/>
 - Response: 200 OK

```
[{"client_id": "1", "clientName": "Nicolas", "licenseNumber": "ABC123", "licenseStartDate": "2021-11-24", "licenseEndDate": "2021-12-29", "licenseKey": "KEYABC123"}, {"client_id": "2", "clientName": "Sebastian", "licenseNumber": "ABC1234", "licenseStartDate": "2021-11-24", "licenseEndDate": "2021-01-09", "licenseKey": "KEY123"}]
```

➤ [GET] Clients/{ID}

- This endpoint is used to retrieve a specific client within the list of clients.
 - Request: <http://localhost/LibraryService/api/clients/1>
 - Response: 200 OK

```
{"client_id": "1", "clientName": "Nicolas", "licenseNumber": "ABC123", "licenseStartDate": "2021-11-24", "licenseEndDate": "2021-12-29", "licenseKey": "KEYABC123"}
```

DOCUMENTATION:

URL: [Library Service v1 | 1.0.0 | NicolasLaurin | SwaggerHub](#)

