# 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

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| --- |
| [{"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

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| --- |
| {"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/

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| --- |
| {       "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>

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| --- |
| {       "book\_name": "The Hobbit",       "author\_name": "J. R. R. Tolkien",       "category\_name": "Fantasy",       "book\_type": "Hardcover",       "num\_of\_pages": "300"  } |

* + - Response: 200 OK

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| --- |
| {"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

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| [{"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>
    - Request: 200 OK

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| --- |
| {"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](https://app.swaggerhub.com/apis-docs/NicolasLaurin/Library_Service_v1/1.0.0#/)  
Graphical user interface, application

Description automatically generated Background pattern

Description automatically generated