

Simple Books API

1 Introduction

C:\Users\paulo\Documents\Pitt University\CS-1520\cs1520_examples-main\networking\http_requests.js

This API allows you to reserve a book.

The API is available at <https://simple-books-api.glitch.me>

Tutorial video: <https://www.youtube.com/watch?v=VywxIQ2ZXw4>

2 Endpoints

2.1 Status

GET `"/status"`

Returns the status of the API.

2.2 List of books

GET `"/books"`

Returns a list of books.

Optional query parameters:

- type: fiction or non-fiction
- limit: a number between 1 and 20.

2.3 Get a single book

GET `"/books/:bookId"`

Retrieve detailed information about a book

Example:

GET `"/books/3"`

2.4 Submit an order

POST `"/orders"`

Allows you to submit a new order. Requires authentication.

The request body needs to be in JSON format and include the following properties:

- `"bookId"` - Integer, Required
- `"customerName"` - String, Required

Example

```
POST /orders/
Authorization: Bearer <YOUR TOKEN>
{
  "bookId": 1,
  "customerName": "John"
}
```

To get a token see Section 1.9.

The response body will contain the order Id.

2.5 Get all orders

```
GET "/orders"
```

Allows you to view all orders. Requires authentication.

2.6 Get an order

```
GET "/orders/:orderId"
```

Allows you to view an existing order. Requires authentication.

2.7 Update an order

```
PATCH "/orders/:orderId"
```

Update an existing order. Requires authentication.

The request body needs to be in JSON format and allows you to update the following properties:

- "customerName" - String

Example

```
PATCH /orders/PF6MflPDcuhWobZcgmJy5
Authorization: Bearer <YOUR TOKEN>
{
  "customerName": "John"
}
```

2.8 Delete an order

```
DELETE "/orders/:orderId"
```

Delete an existing order. Requires authentication.

The request body needs to be empty.

Example

```
DELETE /orders/PF6MflPDcuhWobZcgmJy5
Authorization: Bearer <YOUR TOKEN>
```

2.9 API Authentication

To submit or view an order, you need to register your API client.

POST `"/api-clients/"`

The request body needs to be in JSON format and include the following properties:

`"clientName"` - String

`"clientEmail"` - String

Example:

```
{
  "clientName": "Postman",
  "clientEmail": "valentin@example.com"
}
```

The response body will contain the access token. The access token is valid for 7 days.

Possible errors:

Status code 409 - "API client already registered." Try changing the values for ``clientEmail`` and ``clientName`` to something else.