API Session – Chapter 10

- Data Driven Testing -

# Simple Books API

This API allows you to reserve a book.

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

## Endpoints

### Status

GET /status

Returns the status of the API.

### 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.

### Get a single book

GET /books/:bookId

Retrieve detailed information about a book.

### 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"

}

The response body will contain the order Id.

### Get all orders

GET /orders

Allows you to view all orders. Requires authentication.

### Get an order

GET /orders/:orderId

Allows you to view an existing order. Requires authentication.

### 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"

}

### 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>

# 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.

# Data Driven Testing

The data driven testing is done with the help of CSV / JSON file. Here, we have used the CSV file. The Endpoints used is Submit Order, Get Order and Delete Order.

Create a CSV file with details such as BookId and CustomerName.

**POST /orders/**

Authorization: Bearer <YOUR TOKEN>

{

"bookId": {{BookId}},

"customerName": "{{CustomerName}}"

}

**Note:** The variable name used in the request body should be same as the column value of CSV file.

Add the Test script to validate the response of the submit order endpoint.

**pm.test(“Status Code should be 201”,() =>{**

**pm.response.to.have.status(201);**

**});**

**var jsonData = JSON.parse(responseBody);**

**pm.environment.set(“order\_id”,jsonData.orderId);**

After constructing the submit order API post request, construct the get order and delete order requests as well. The order id created in the submit order request should be used in the get order and delete order requests. So, all 3 requests are chained. So, we need to run these requests via Collection.