Project Title

Automated API Testing Using Postman – Simple Book API

Project Description

This project focuses on testing a public REST API using **Postman**. The selected API is the **Simple Book API**, which provides data about books in JSON format. The main goal of the project is to verify that the API works correctly by using automated tests written in JavaScript in the Postman Tests tab.

The project includes a collection with one request that retrieves a list of books. The API response contains at least six book objects. Several automated tests were created to validate different aspects of the API, such as the HTTP status code, response time, structure of the response, number of elements in the collection, and the presence of specific data.

This project demonstrates practical skills in API testing, understanding REST principles, and writing automated tests. It also shows how Postman can be used as a professional tool for validating backend services. **API Used**

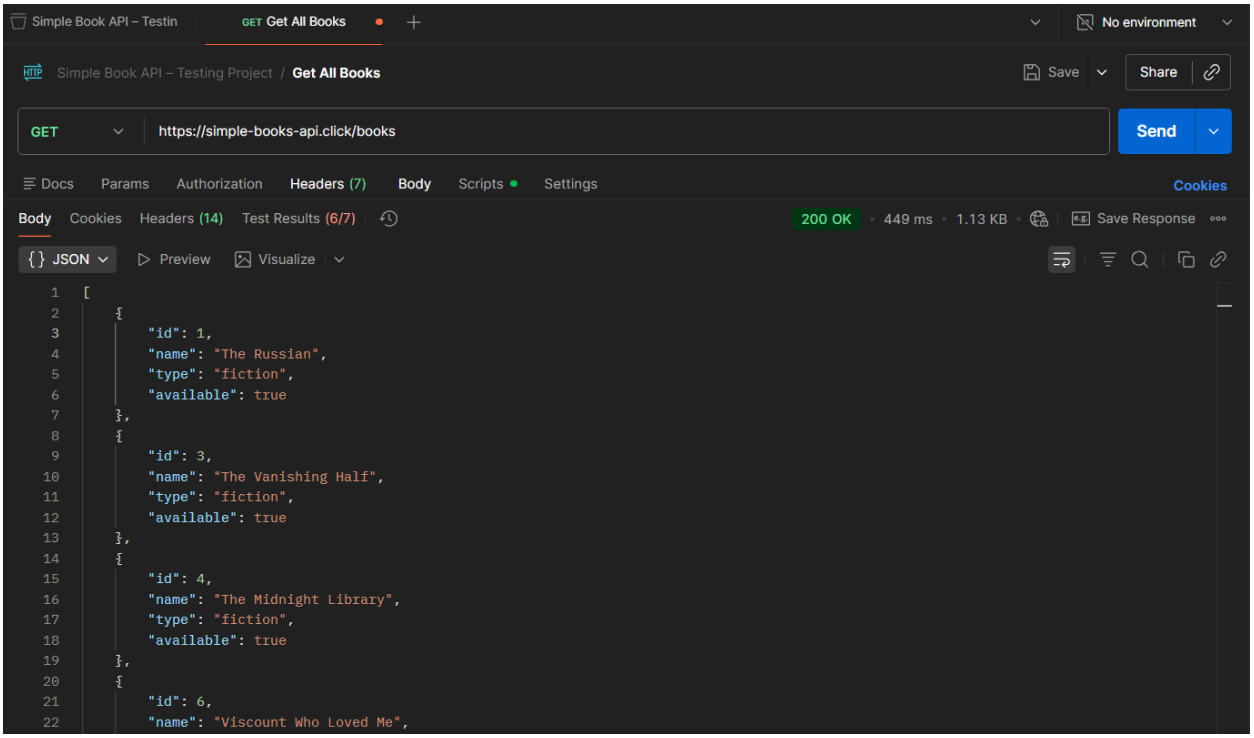
Simple Book API
Endpoint: GET https://simple-books-api.glitch.me/books

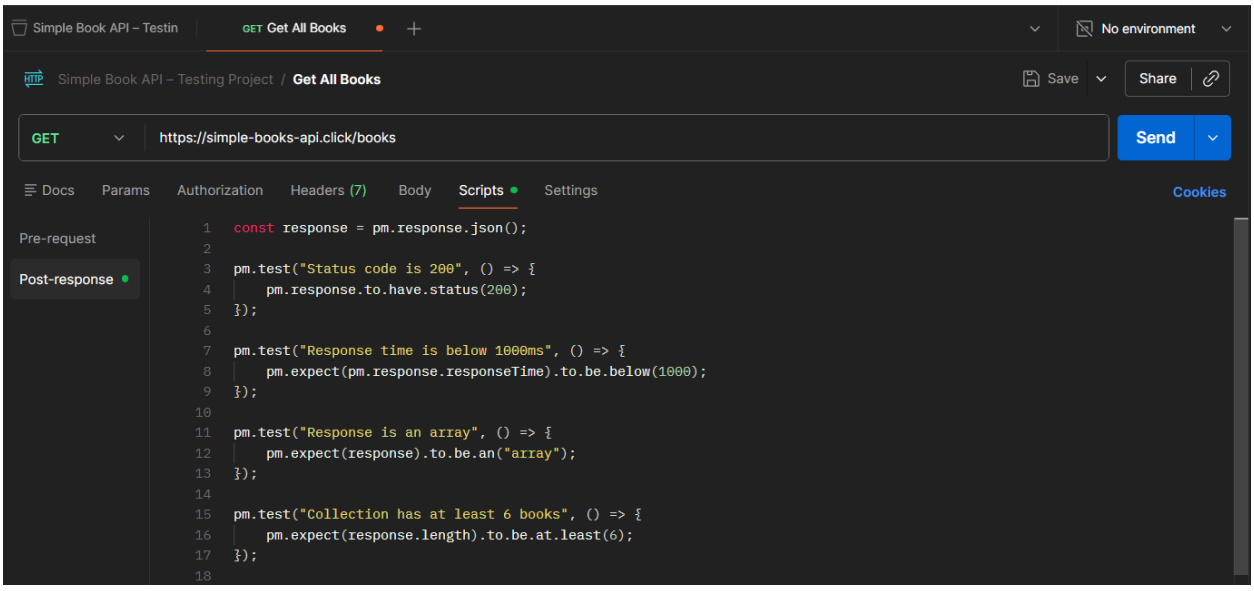
Implemented Tests

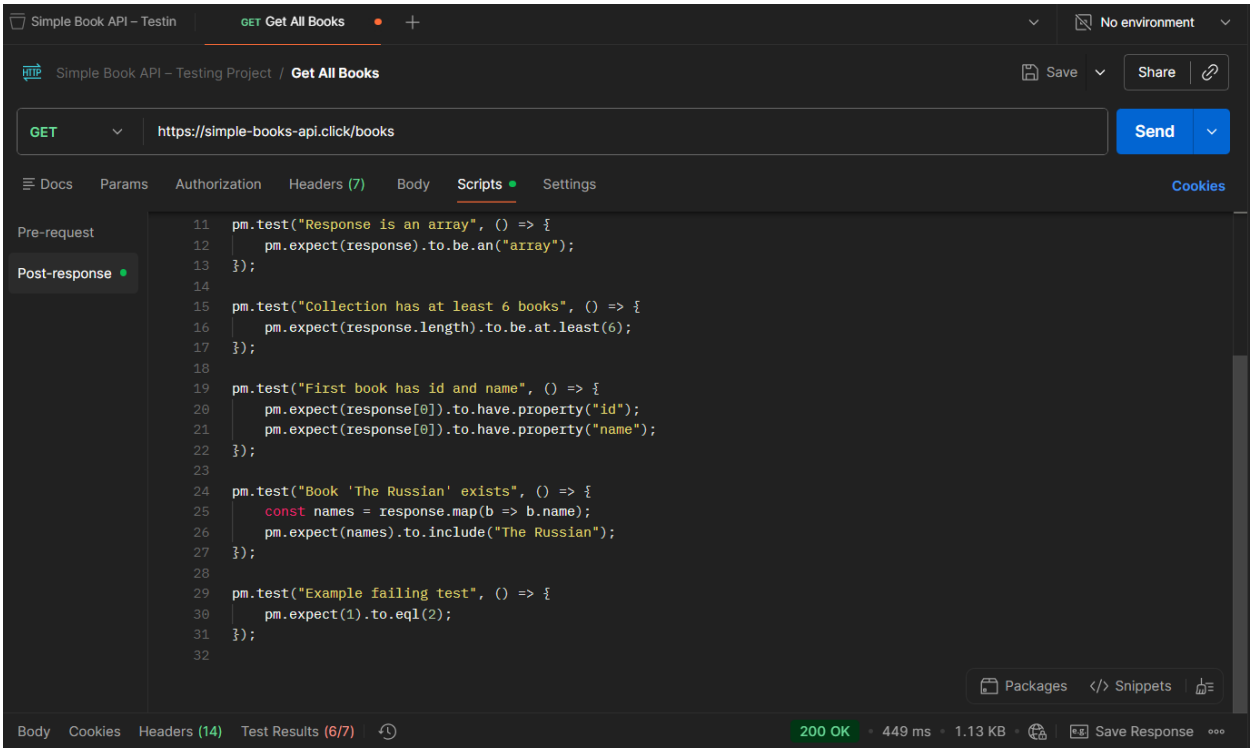
The following automated tests were implemented:

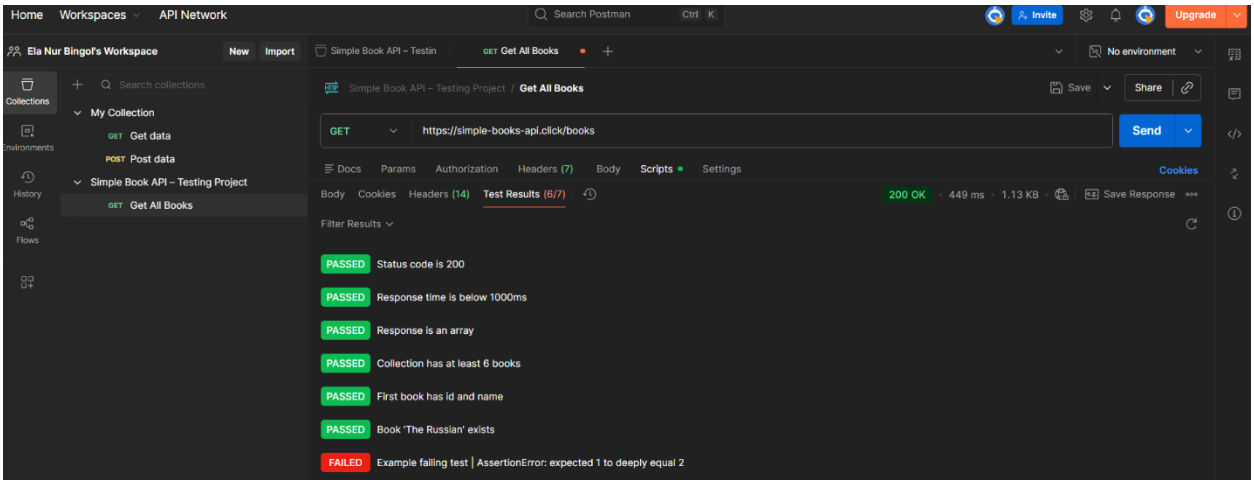
1. Verification that the HTTP status code is **200 (OK)**
2. Validation that the API response time is below **1000 ms**
3. Checking that the response is an **array**
4. Validation that the collection contains **at least 6 books**
5. Checking that each book object contains required fields such as **id** and **name**
6. Verification that a specific book (**"The Russian"**) exists in the response
7. Example of a **failing test** to demonstrate error detection

Screenshots









Tools and Technologies

- Postman
- REST API
- JavaScript (Postman test scripts)
- JSON

Conclusion

This project shows how automated API testing can be performed using Postman. The tests help ensure the correctness, performance, and reliability of the API. The project is suitable for beginners and demonstrates essential skills required in software testing and backend development.

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