REST API Documentation

Overview:

1. Online Store / Project Name: ***XYZ Book Store.***
2. Description: This website / APIs will give us the idea about physical located book store at PQR place and all available types of books in it.
3. Services: I have added REST APIs for add, delete, update and retrieve books from the book store

Prerequisites:

1. Python 2.7.15
2. Django 1.8
3. Mysql 5.7
   1. Username: root
   2. Password: newpassword
4. django-cors-headers==2.4.0
5. djangorestframework==3.6.0
6. MySQL-python==1.2.5
7. pycrypto==2.6.1

All Available APIs:

|  |  |  |
| --- | --- | --- |
| METHOD | API | Description |
| POST | /login | Checking the user is authenticated or not |
| GET | /books | Fetching all books with description |
| GET | /book/<isbn\_id> | Fetching detail of particular book |
| POST | /book/ | Adding new book |
| PUT | /book/<isbn\_id> | Updating the already added book detail |
| DELETE | /book/<isbn\_id> | Deleting book details based on isbn |

\*isbn == International Standard book number

1. **POST /login**

**REQUEST DATA**

Method: GET

Header parameter:

|  |  |  |
| --- | --- | --- |
| **FIELD** | **REQUIRED** | **VALUE** |
| Content-Type | YES | application/json |

URL: /login/

Request data parameter:

|  |  |  |  |
| --- | --- | --- | --- |
| **FIELD** | **REQUIRED** | **TYPE** | **DEFAULT VALUE** |
| username | YES | String | - |
| password | YES | String | - |

Request Body Example:

|  |
| --- |
| {  "username": "test",  "password": "test"  } |

**RESPONSE DATA**

Header:

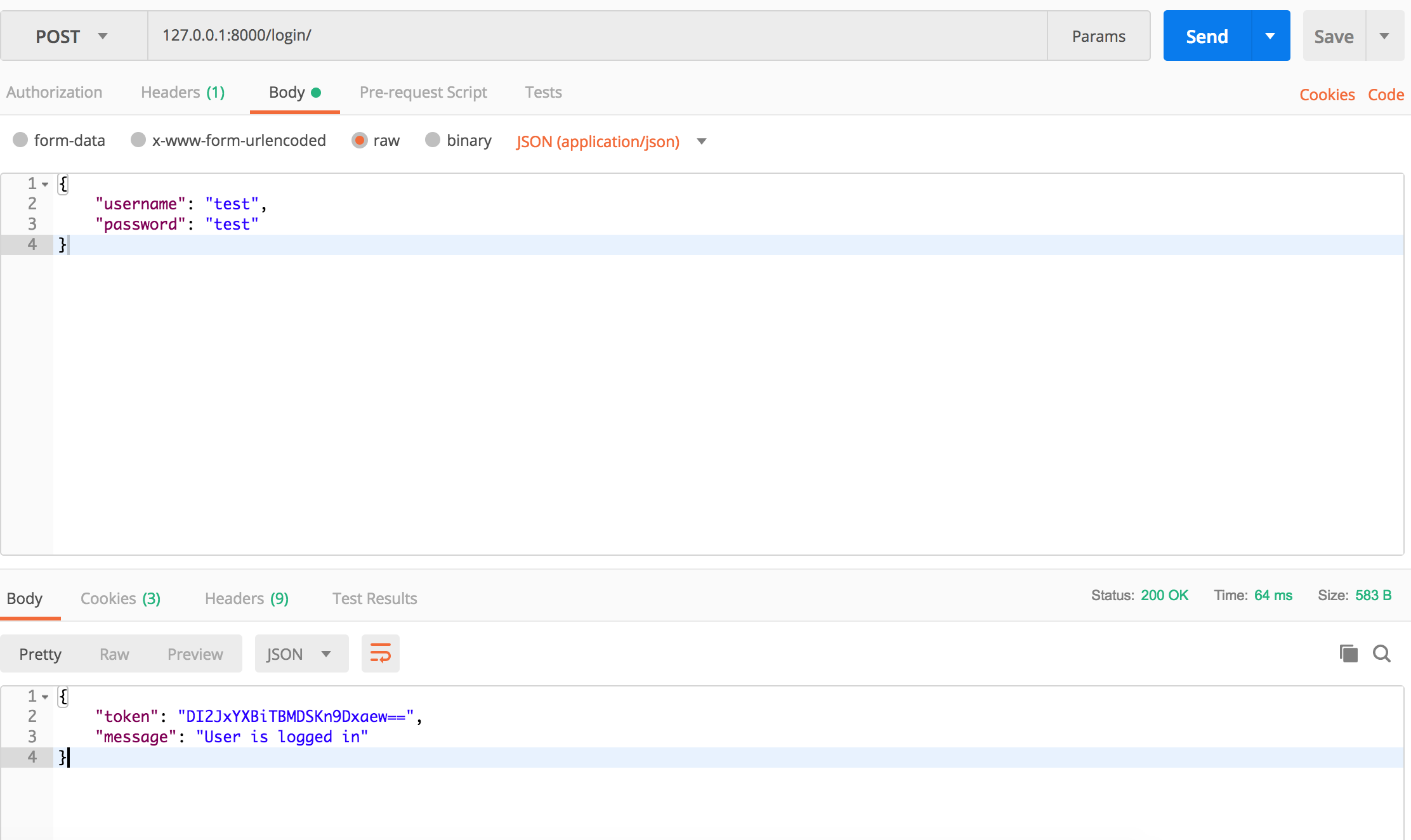
|  |  |
| --- | --- |
| Content-Type | application/json |

Status: 201 CREATED

Response Body Example:

|  |
| --- |
| {  "token": "DI2JxYXBiTBMDSKn9Dxaew==",  "message": "User is logged in"  } |

**SAMPLE SCREENSHOT**



1. **GET /books/ API**

**REQUEST DATA**

Method: GET

Header parameter:

|  |  |  |
| --- | --- | --- |
| **FIELD** | **REQUIRED** | **VALUE** |
| Content-Type | YES | application/json |
| Authorization | YES | Bearer {token you got from /login} |

URL: /books/

**RESPONSE DATA**

Header:

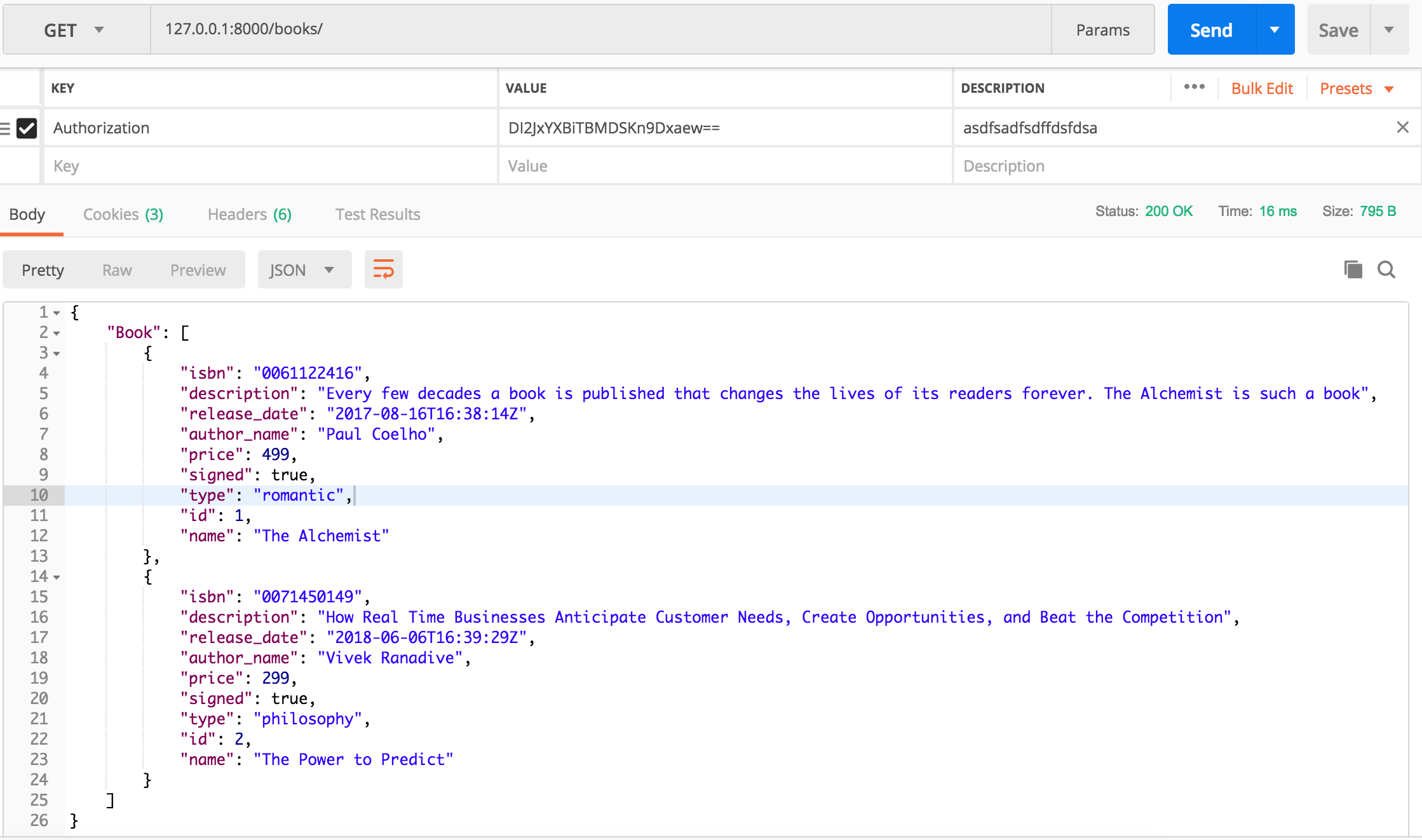
|  |  |
| --- | --- |
| Content-Type | application/json |

Status: 200 OK

Message Body Example:

|  |
| --- |
| {  "Book": [  {  "isbn": "0061122416",  "description": "Every few decades a book is published that changes the lives of its readers forever. The Alchemist is such a book",  "release\_date": "2017-08-16T16:38:14Z",  "author\_name": "Paul Coelho",  "price": 499,  "signed": true,  "type": "romantic",  "id": 1,  "name": "The Alchemist"  },  {  "isbn": "0071450149",  "description": "How Real Time Businesses Anticipate Customer Needs, Create Opportunities, and Beat the Competition",  "release\_date": "2018-06-06T16:39:29Z",  "author\_name": "Vivek Ranadive",  "price": 299,  "signed": true,  "type": "philosophy",  "id": 2,  "name": "The Power to Predict"  }  ]  } |

**SAMPLE SCREENSHOT**



1. **GET /book/<isbn\_id>/ API**

**REQUEST DATA**

Method: GET

Header parameter:

|  |  |  |
| --- | --- | --- |
| **FIELD** | **REQUIRED** | **VALUE** |
| Content-Type | YES | application/json |
| Authorization | YES | Bearer {token you got from /login} |

URL: /book/<isbn\_id>

**RESPONSE DATA**

Header:

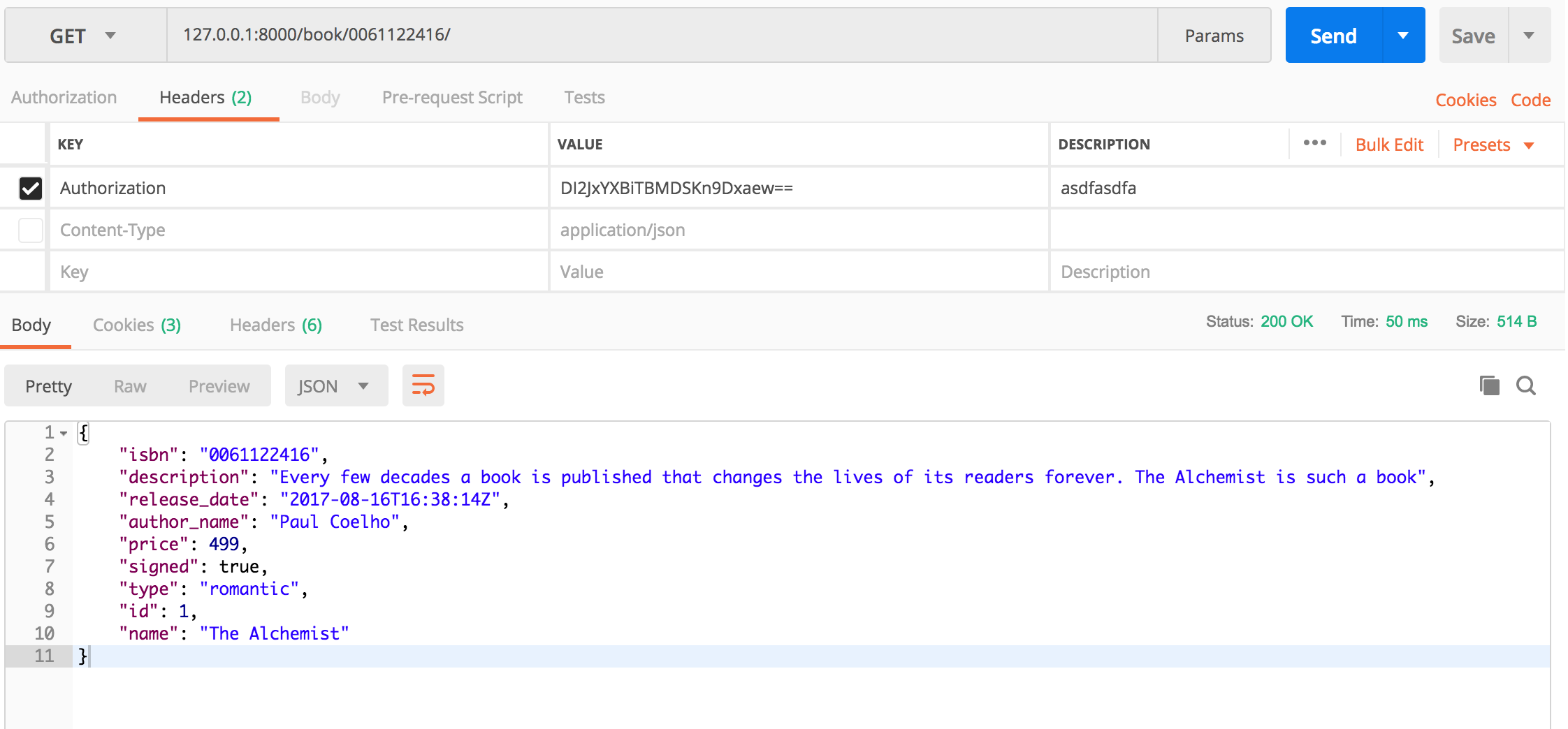
|  |  |
| --- | --- |
| Content-Type | application/json |

Status: 200 OK

Message Body Example:

|  |
| --- |
| {  "isbn": "0061122416",  "description": "Every few decades a book is published that changes the lives of its readers forever. The Alchemist is such a book",  "release\_date": "2017-08-16T16:38:14Z",  "author\_name": "Paul Coelho",  "price": 499,  "signed": true,  "type": "romantic",  "id": 1,  "name": "The Alchemist"  } |

**SAMPLE SCREENSHOT**



1. **POST /book/ API**

**REQUEST DATA**

Method: GET

Header parameter:

|  |  |  |
| --- | --- | --- |
| **FIELD** | **REQUIRED** | **VALUE** |
| Content-Type | YES | application/json |
| Authorization | YES | Bearer {token you got from /login} |

URL: /book/<isbn\_id>

Request data parameter:

|  |  |  |  |
| --- | --- | --- | --- |
| **FIELD** | **REQUIRED** | **TYPE** | **DEFAULT VALUE** |
| Isbn | YES | Integer | - |
| description | YES | String | - |
| author\_name | YES | String | - |
| price | YES | Integer | - |
| signed | YES | Boolean | False |
| type | YES | String | - |
| name | YES | String | - |

Request Body Example:

|  |
| --- |
| {  "isbn": "9090909090",  "description": "testing.1212",  "author\_name": "test name",  "price": 989,  "signed": true,  "type": "romantic",  "name": "The test"  } |

**RESPONSE DATA**

Header:

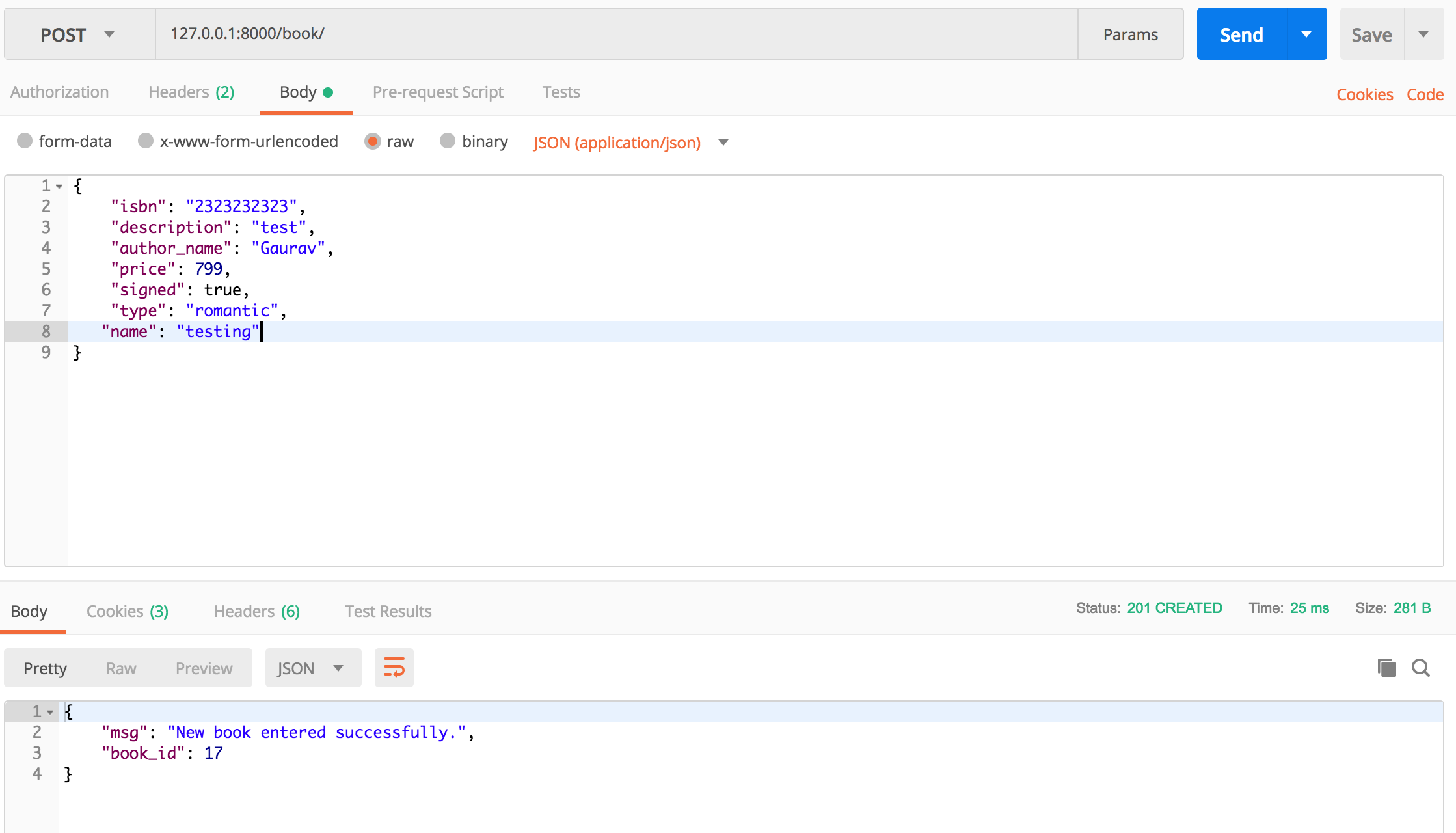
|  |  |
| --- | --- |
| Content-Type | application/json |

Status: 201 CREATED

Response Body Example:

|  |
| --- |
| {  "isbn": "0061122416",  "description": "Every few decades a book is published that changes the lives of its readers forever. The Alchemist is such a book",  "release\_date": "2017-08-16T16:38:14Z",  "author\_name": "Paul Coelho",  "price": 499,  "signed": true,  "type": "romantic",  "id": 1,  "name": "The Alchemist"  } |

**SAMPLE SCREENSHOT**



1. **PUT /book/<isbn\_id>/ API**

**REQUEST DATA**

Method: GET

Header parameter:

|  |  |  |
| --- | --- | --- |
| **FIELD** | **REQUIRED** | **VALUE** |
| Content-Type | YES | application/json |
| Authorization | YES | Bearer {token you got from /login} |

URL: /book/<isbn\_id>/

Request data parameter:

|  |  |  |  |
| --- | --- | --- | --- |
| **FIELD** | **REQUIRED** | **TYPE** | **DEFAULT VALUE** |
| Isbn | OPTIONAL | Integer | - |
| description | OPTIONAL | String | - |
| author\_name | OPTIONAL | String | - |
| price | OPTIONAL | Integer | - |
| signed | OPTIONAL | Boolean | False |
| type | OPTIONAL | String | - |
| name | OPTIONAL | String | - |

Request Body Example:

|  |
| --- |
| {  "price": 989,  } |

**RESPONSE DATA**

Header:

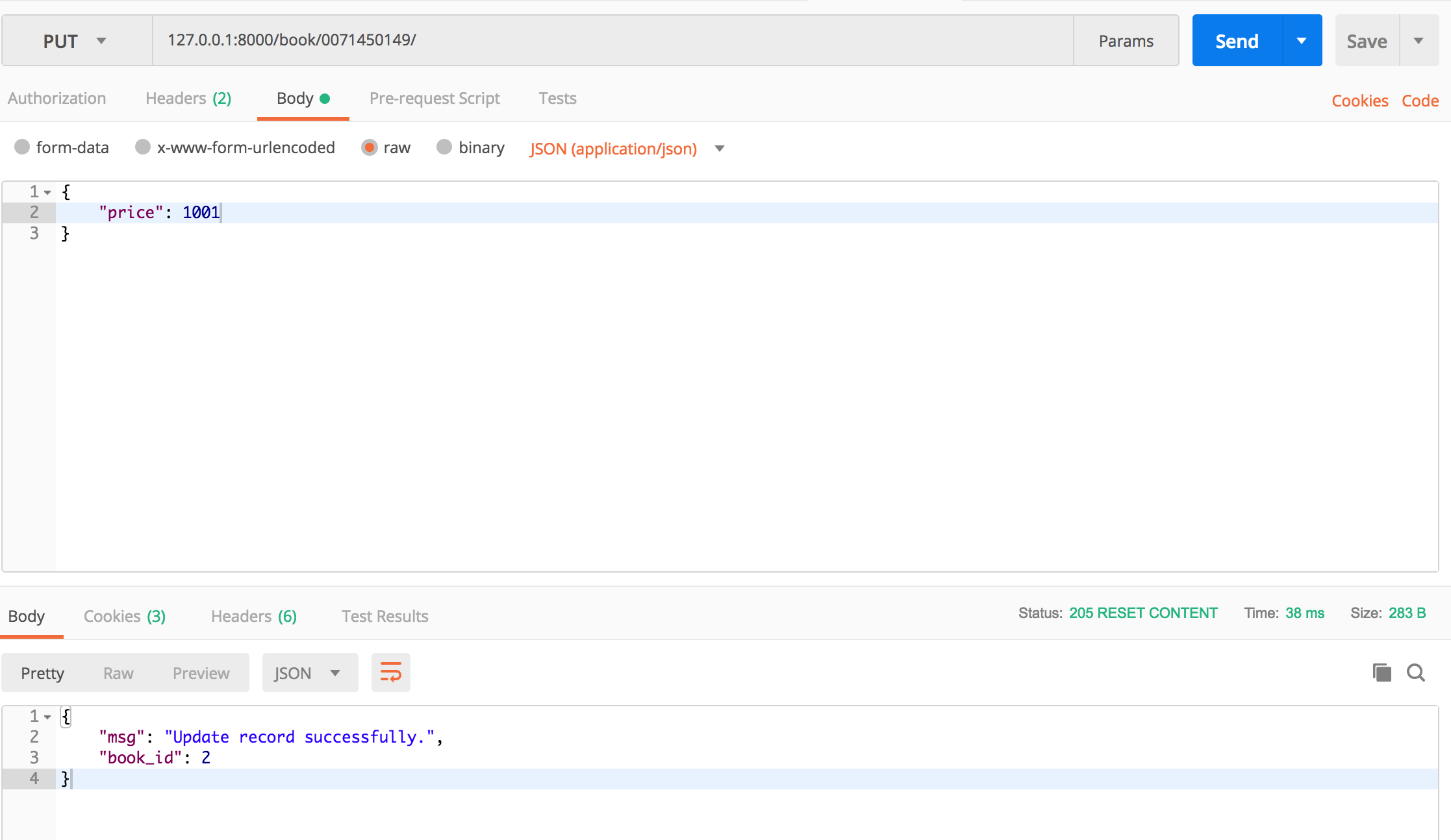
|  |  |
| --- | --- |
| Content-Type | application/json |

Status: 205 RESET CONTENT

Response Body Example:

|  |
| --- |
| {  "msg": "Update record successfully.",  "book\_id": <book\_id>  } |

**SAMPLE SCREENSHOT**



1. **DELETE /book/<isbn\_id>/ API**

**REQUEST DATA**

Method: GET

Header parameter:

|  |  |  |
| --- | --- | --- |
| **FIELD** | **REQUIRED** | **VALUE** |
| Content-Type | YES | application/json |
| Authorization | YES | Bearer {token you got from /login} |

URL: /book/<isbn\_id>/

**RESPONSE DATA**

Header:

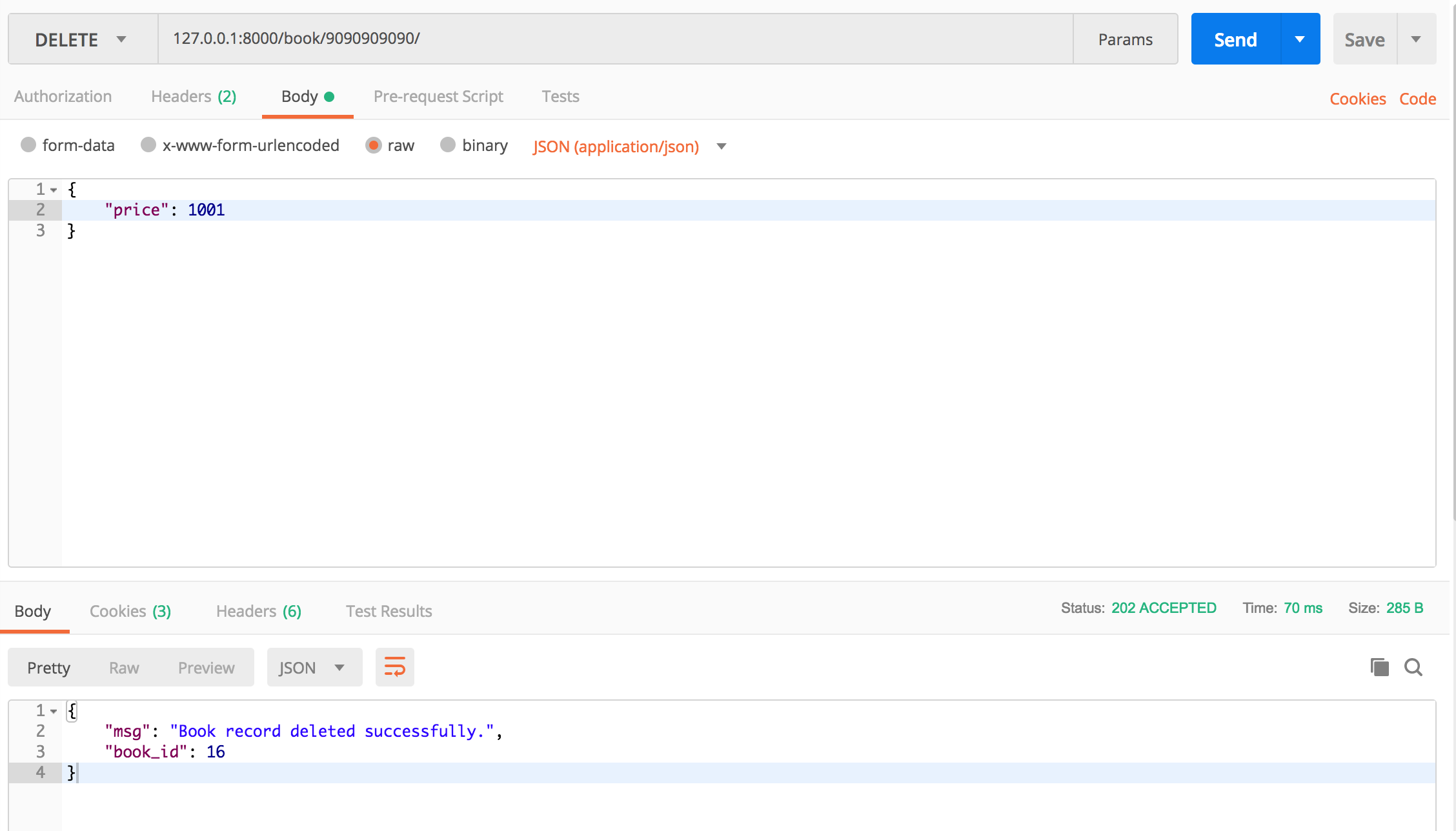
|  |  |
| --- | --- |
| Content-Type | application/json |

Status: 200 OK

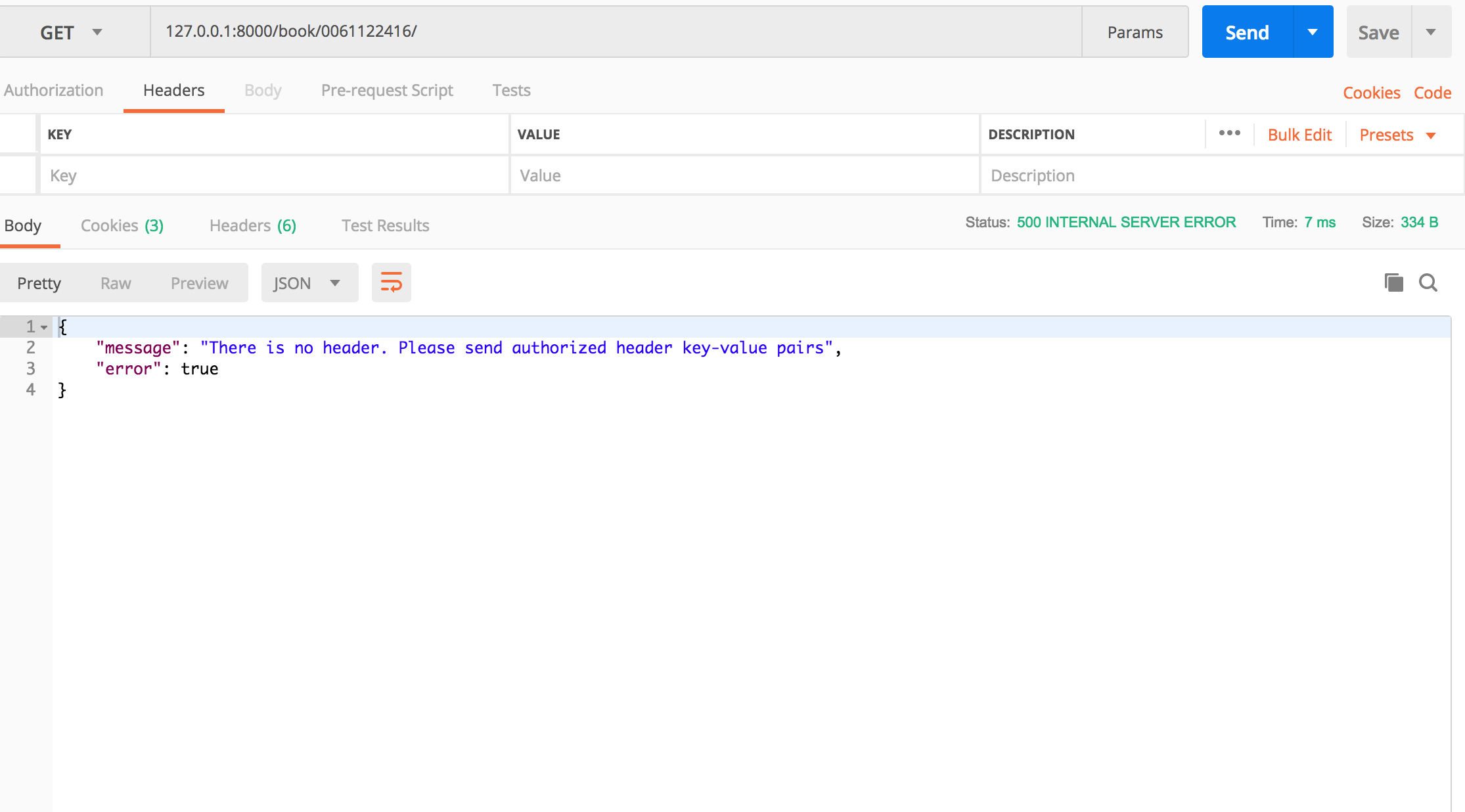
Message Body Example:

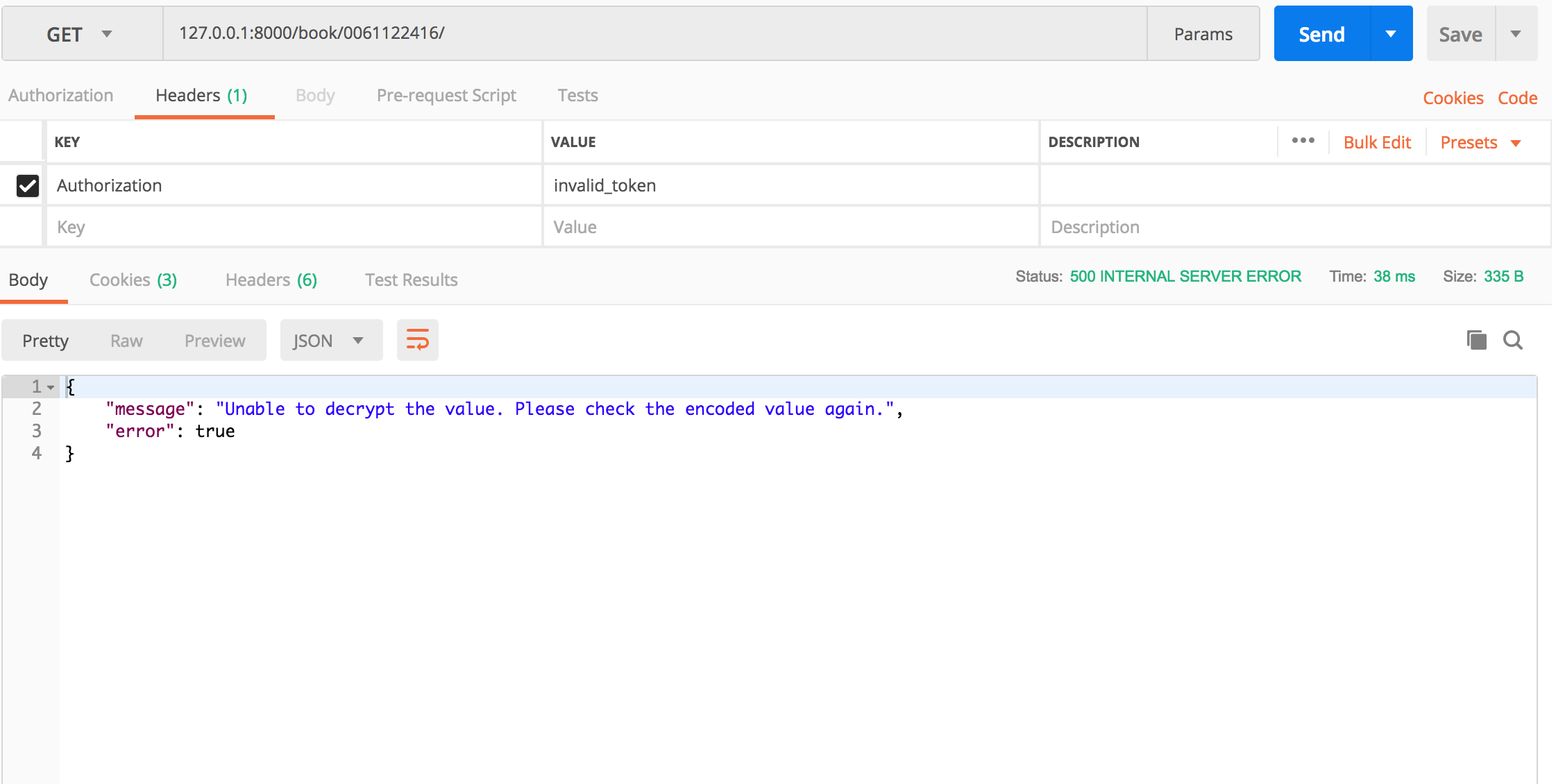
|  |
| --- |
| {  "msg": "Book record deleted successfully.",  "book\_id": 16  } |

**SAMPLE SCREENSHOT**

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**VALIDATION SCREEN SHOTS:**

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**HOW TO RUN PROJECT LOCALLY**

1. Setup mysql connection locally
   1. DB Name: retail
   2. DB user: root
   3. DB password: newpassword
2. git clone <https://github.com/Gaurav1990/online_book_store.git>
3. (optional) if we want to insert dummy data then  
   mysql –u root –p retail < testdb.sql
4. cd <project\_dir>
5. python manage.py migrate (to create tables in local)
6. python manage.py runserver (to run locally)
7. Use POSTMAN or any other API Handling tool
8. Hit /login API with existing username and password. If used above dummy data then give test/ test as username / password
9. You will get token in the response body
10. Use above token as {key:value} => {‘Authorization’: <token>} in the all other APIs header part to check authenticated user request