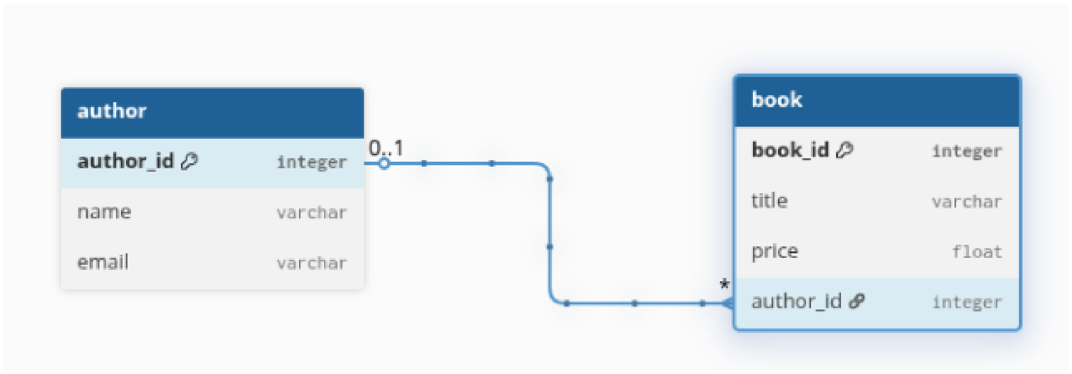
Aliza Dangi

PYTHON PROJECT:
BOOK INVENTORY MANAGEMENT

Objective:

Create a simple API to manage books and authors in a bookstore. Create tables in Python (SQLAlchemy).

Schema:



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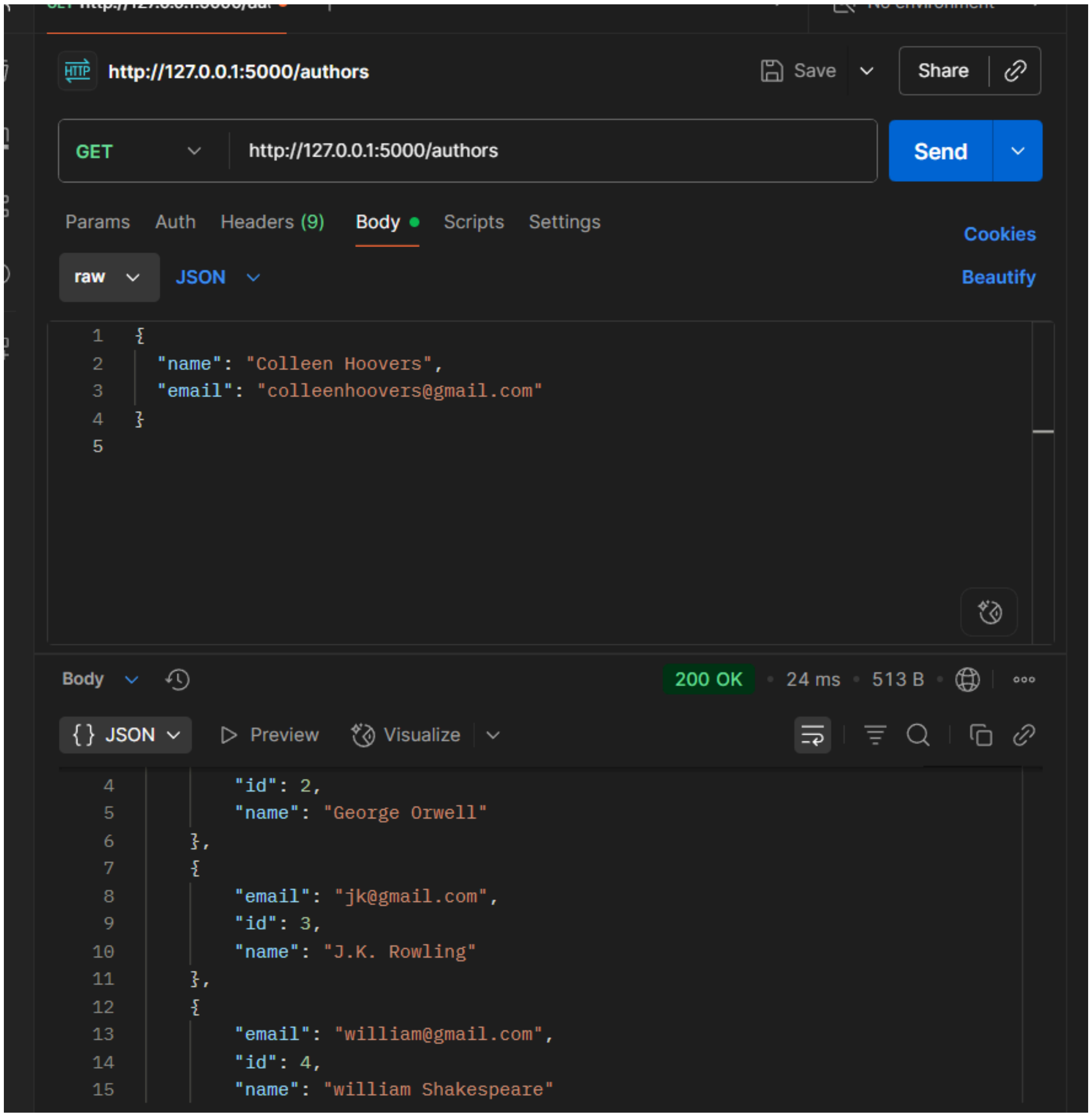
Author API:

Add a new author:


http://127.0.0.1:5000/authors

GET http://127.0.0.1:5000/authors

```
{
  "name": "Colleen Hoovers",
  "email": "colleenhoovers@gmail.com"
}
```

Body 200 OK • 24 ms • 513 B

```
        "id": 2,
        "name": "George Orwell"
    },
    {
        "email": "jk@gmail.com",
        "id": 3,
        "name": "J.K. Rowling"
    },
    {
        "email": "william@gmail.com",
        "id": 4,
        "name": "william Shakespeare"
```

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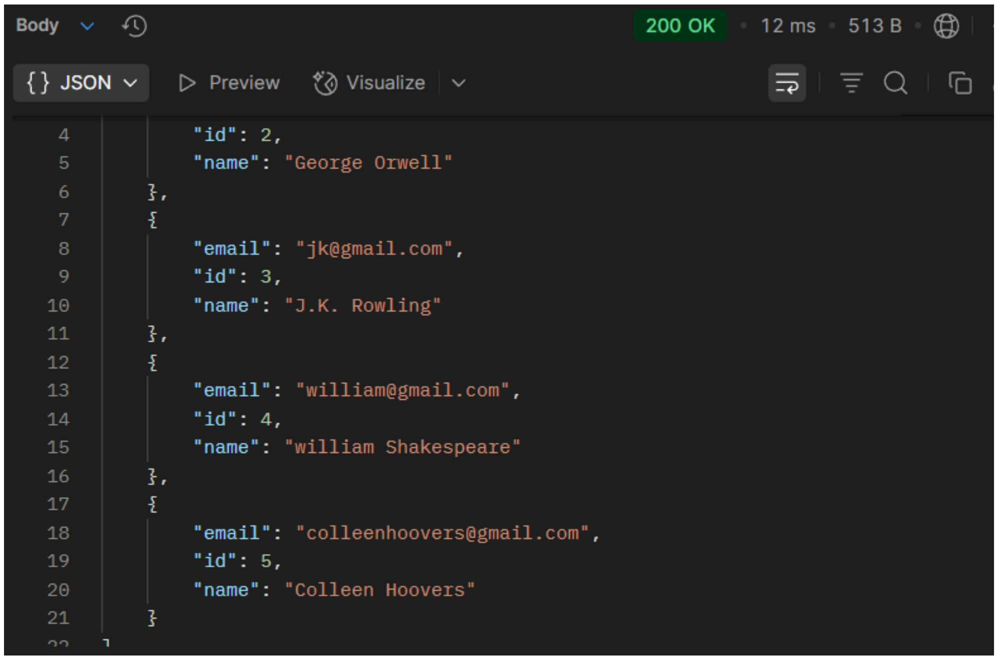
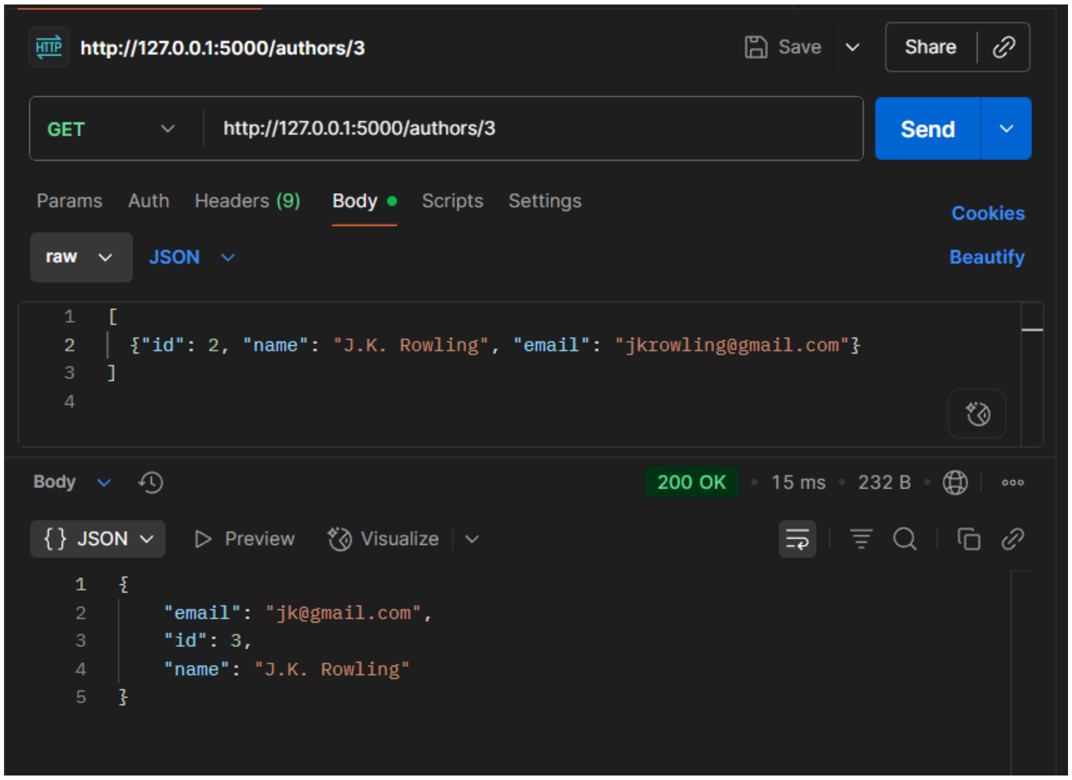
Get All Authors:



```
            "id": 2,
            "name": "George Orwell"
        },
        {
            "email": "jk@gmail.com",
            "id": 3,
            "name": "J.K. Rowling"
        },
        {
            "email": "william@gmail.com",
            "id": 4,
            "name": "william Shakespeare"
        },
        {
            "email": "colleenhoovers@gmail.com",
            "id": 5,
            "name": "Colleen Hoovers"
        }
```

Get Author by ID:



http://127.0.0.1:5000/authors/3

GET http://127.0.0.1:5000/authors/3

```
[
  {"id": 2, "name": "J.K. Rowling", "email": "jkrowling@gmail.com"}
]
```

```
{
    "email": "jk@gmail.com",
    "id": 3,
    "name": "J.K. Rowling"
}
```

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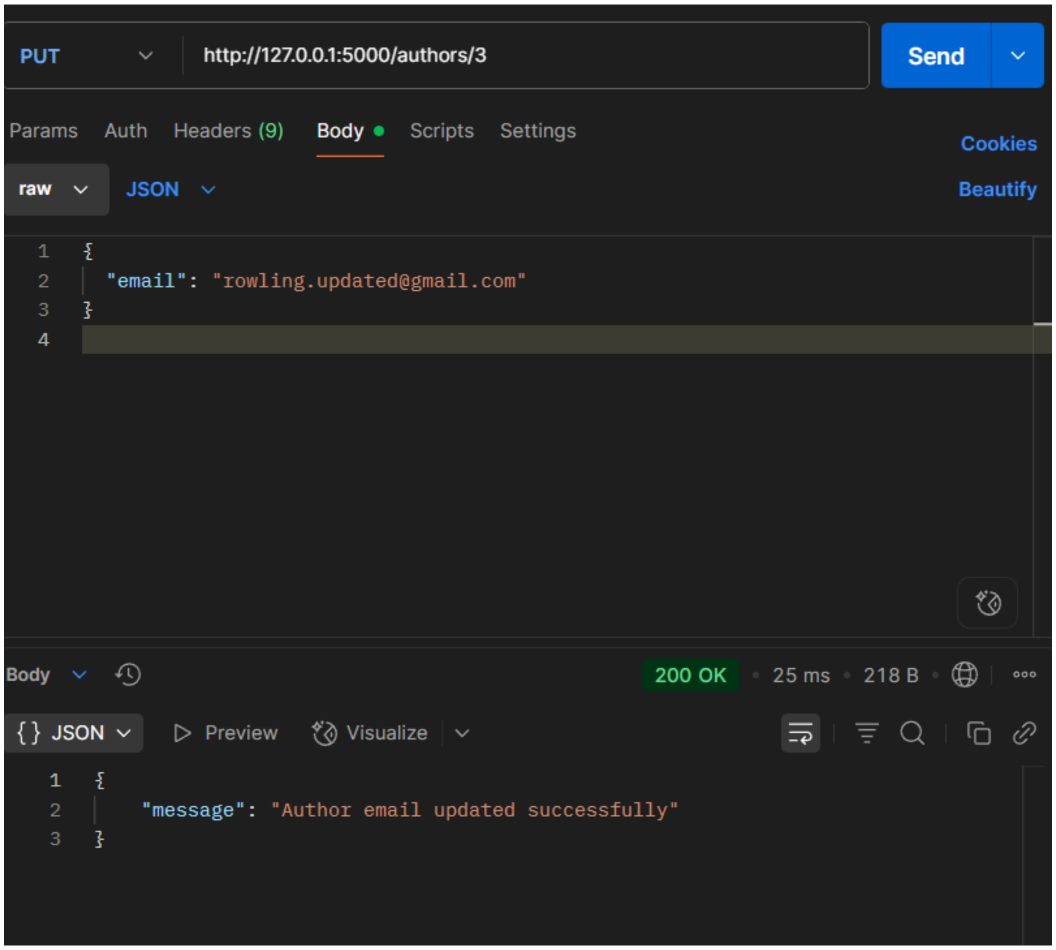
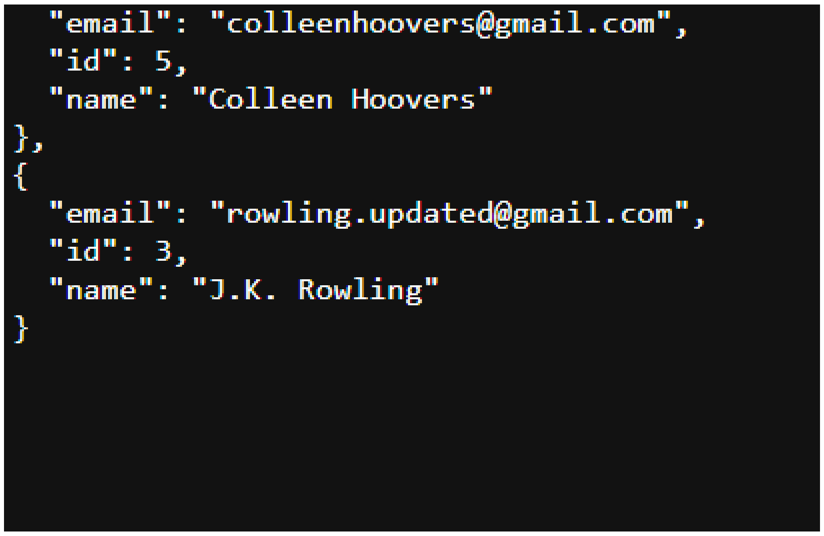
Update Author Email:



```
http://127.0.0.1:5000/authors/3
```

```
{
  "email": "rowling.updated@gmail.com"
}
```

```
{
    "message": "Author email updated successfully"
}
```



```
  "email": "colleenhoovers@gmail.com",
  "id": 5,
  "name": "Colleen Hoovers"
},
{
  "email": "rowling.updated@gmail.com",
  "id": 3,
  "name": "J.K. Rowling"
}
```

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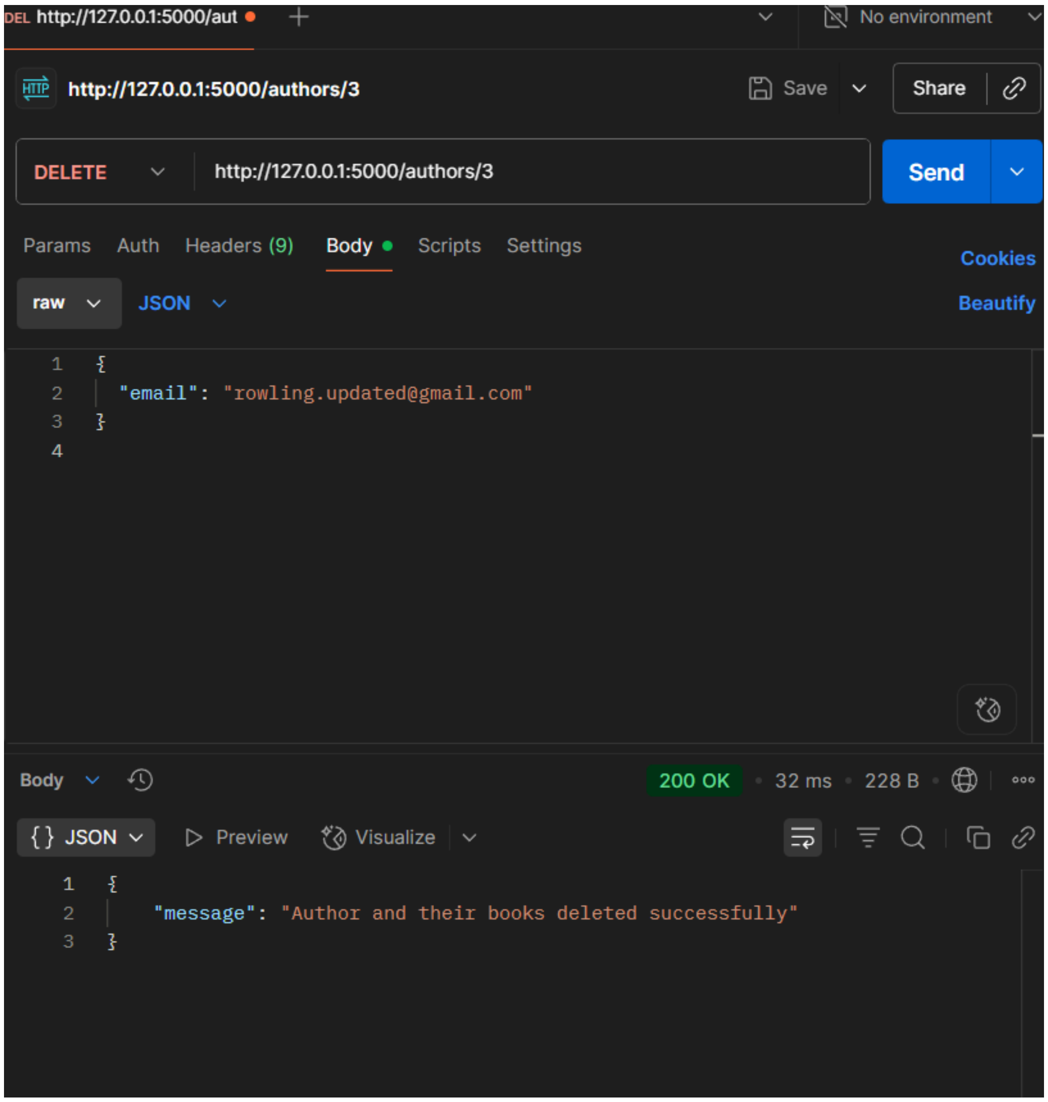
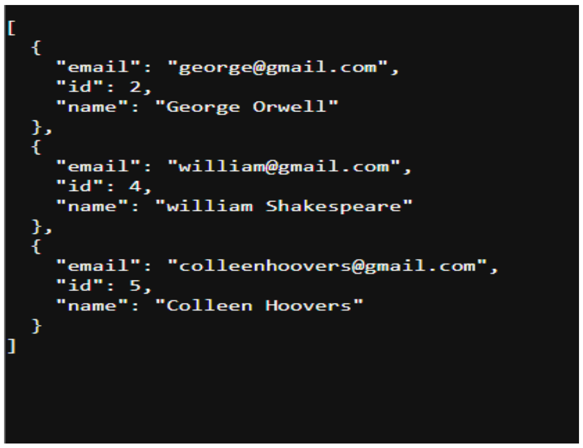
Delete Author:



DELETE http://127.0.0.1:5000/authors/3

```
{
  "email": "rowling.updated@gmail.com"
}
```

```
{
    "message": "Author and their books deleted successfully"
}
```



```
[
  {
    "email": "george@gmail.com",
    "id": 2,
    "name": "George Orwell"
  },
  {
    "email": "william@gmail.com",
    "id": 4,
    "name": "william Shakespeare"
  },
  {
    "email": "colleenhoovers@gmail.com",
    "id": 5,
    "name": "Colleen Hoovers"
  }
]
```

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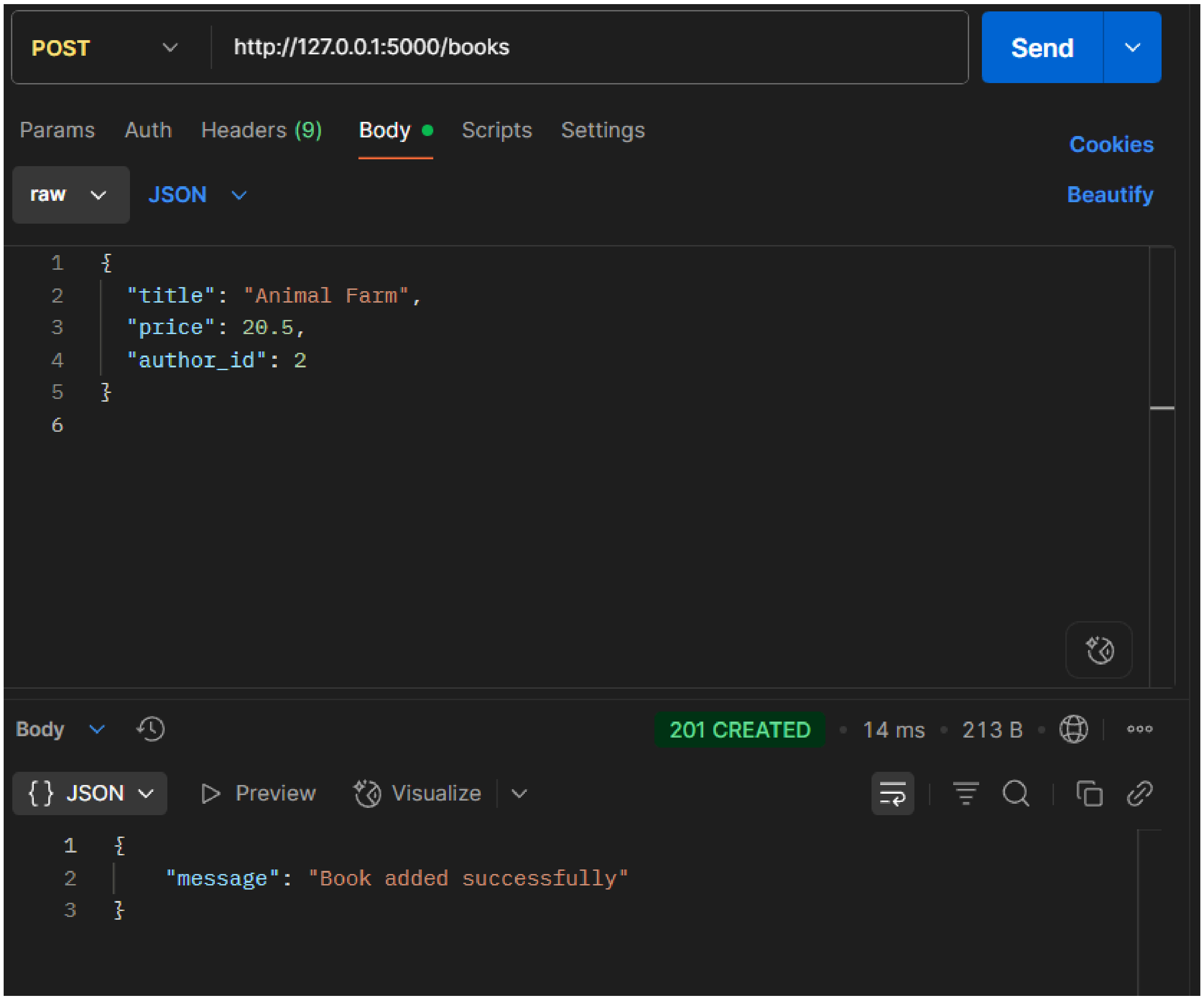
Books API:

Add a Book:



http://127.0.0.1:5000/books

```
{
  "title": "Animal Farm",
  "price": 20.5,
  "author_id": 2
}
```

201 CREATED • 14 ms • 213 B

```
{
    "message": "Book added successfully"
}
```

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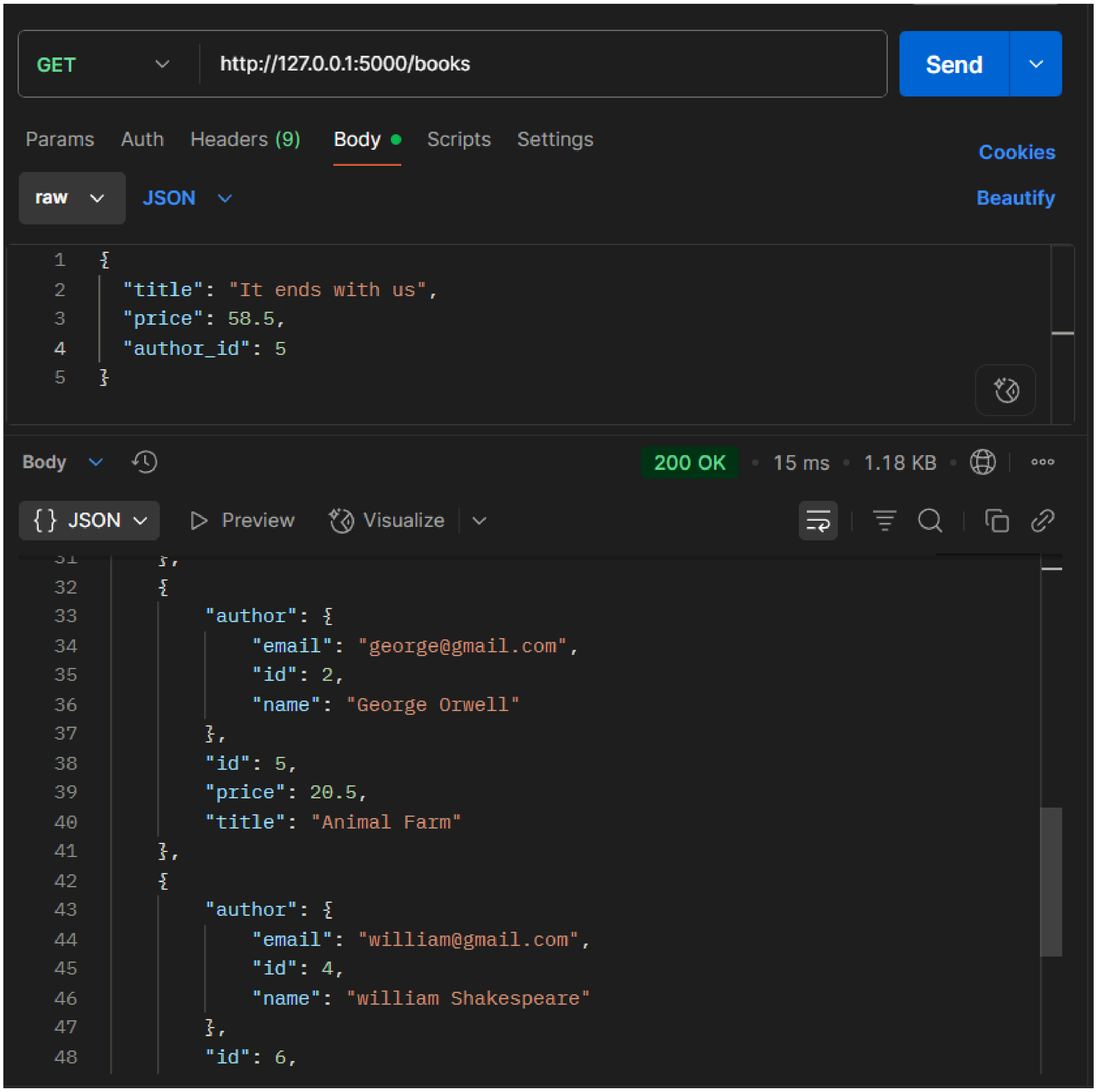
Get All Books:



GET http://127.0.0.1:5000/books Send

Params Auth Headers (9) Body Scripts Settings Cookies

raw JSON Beautify

```
{
  "title": "It ends with us",
  "price": 58.5,
  "author_id": 5
}
```

Body 200 OK • 15 ms • 1.18 KB

{ } JSON Preview Visualize

```
        },
        {
            "author": {
                "email": "george@gmail.com",
                "id": 2,
                "name": "George Orwell"
            },
            "id": 5,
            "price": 20.5,
            "title": "Animal Farm"
        },
        {
            "author": {
                "email": "william@gmail.com",
                "id": 4,
                "name": "william Shakespeare"
            },
            "id": 6,
```

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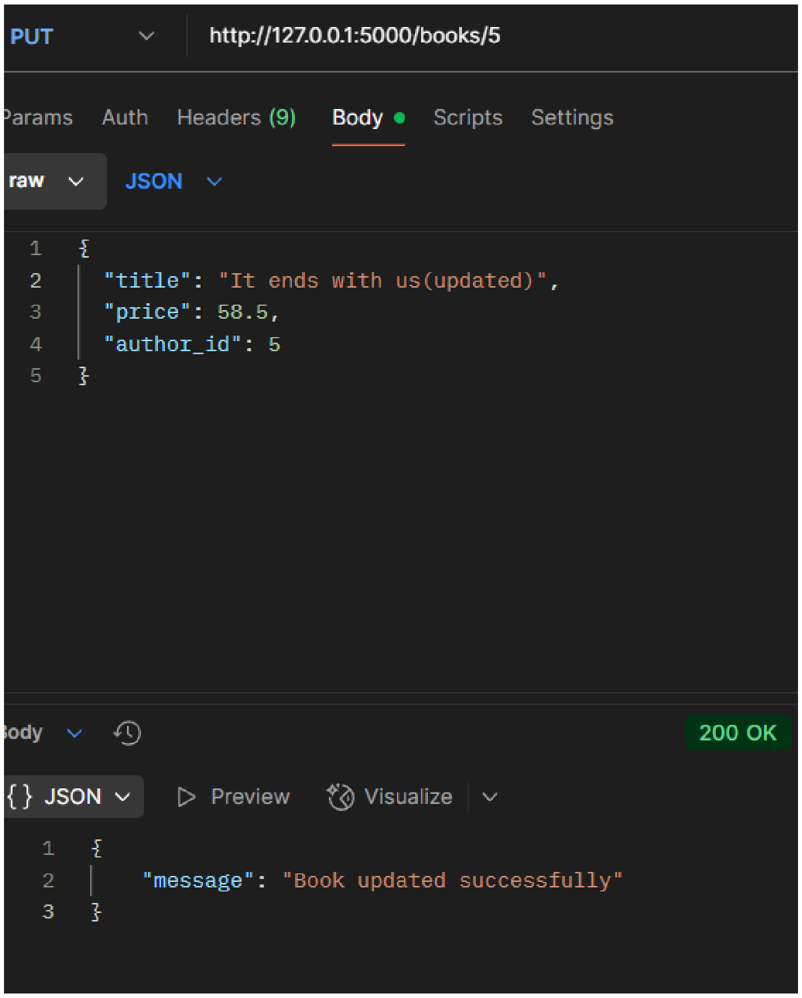
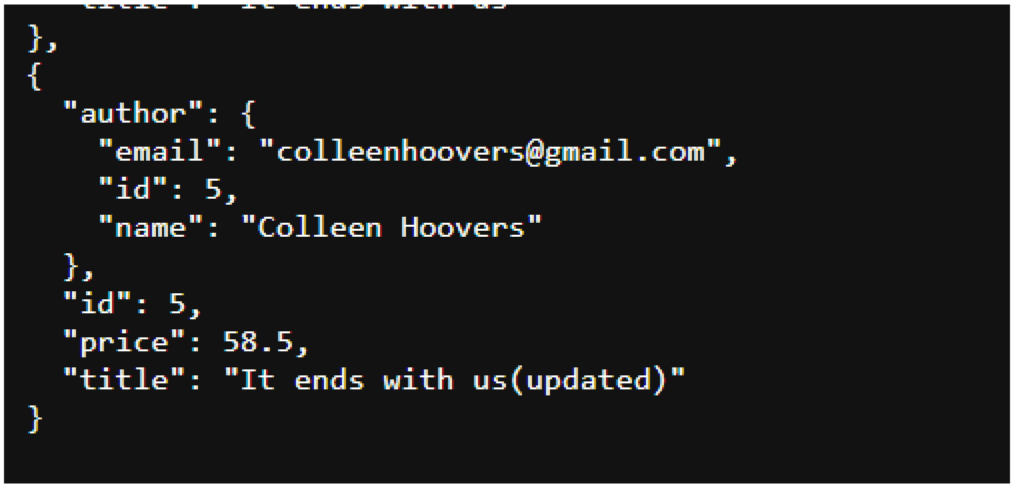
Update Book:



```
http://127.0.0.1:5000/books/5
```

```
{
  "title": "It ends with us(updated)",
  "price": 58.5,
  "author_id": 5
}
```

```
{
    "message": "Book updated successfully"
}
```



```
},
{
  "author": {
    "email": "colleenhoovers@gmail.com",
    "id": 5,
    "name": "Colleen Hoovers"
  },
  "id": 5,
  "price": 58.5,
  "title": "It ends with us(updated)"
}
```

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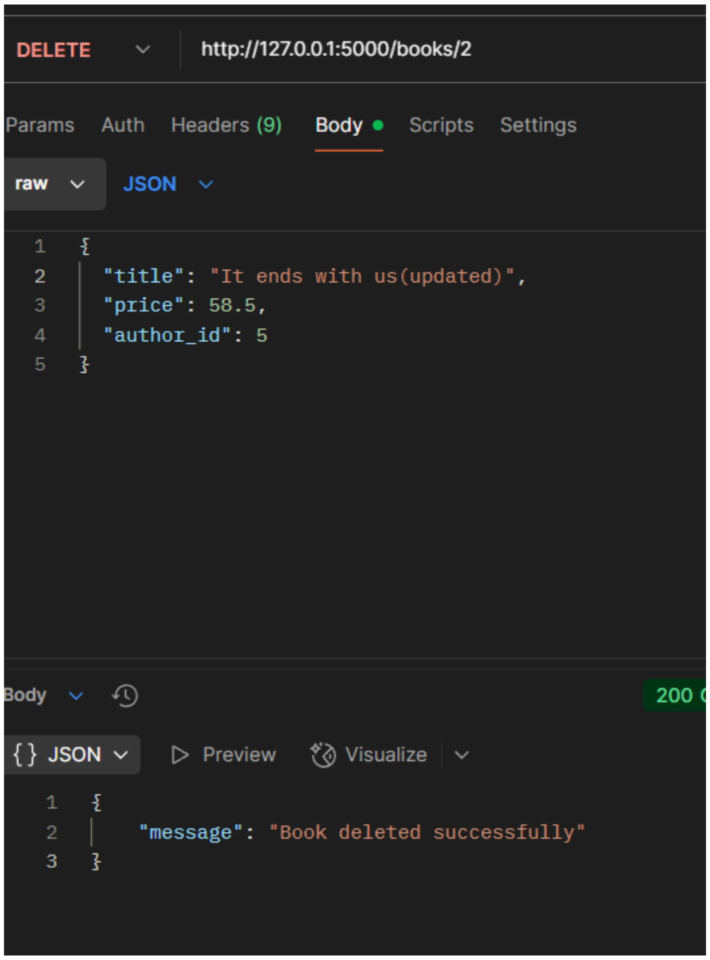
Delete Book:



```
http://127.0.0.1:5000/books/2
```

```
{
  "title": "It ends with us(updated)",
  "price": 58.5,
  "author_id": 5
}
```

200

```
{
    "message": "Book deleted successfully"
}
```

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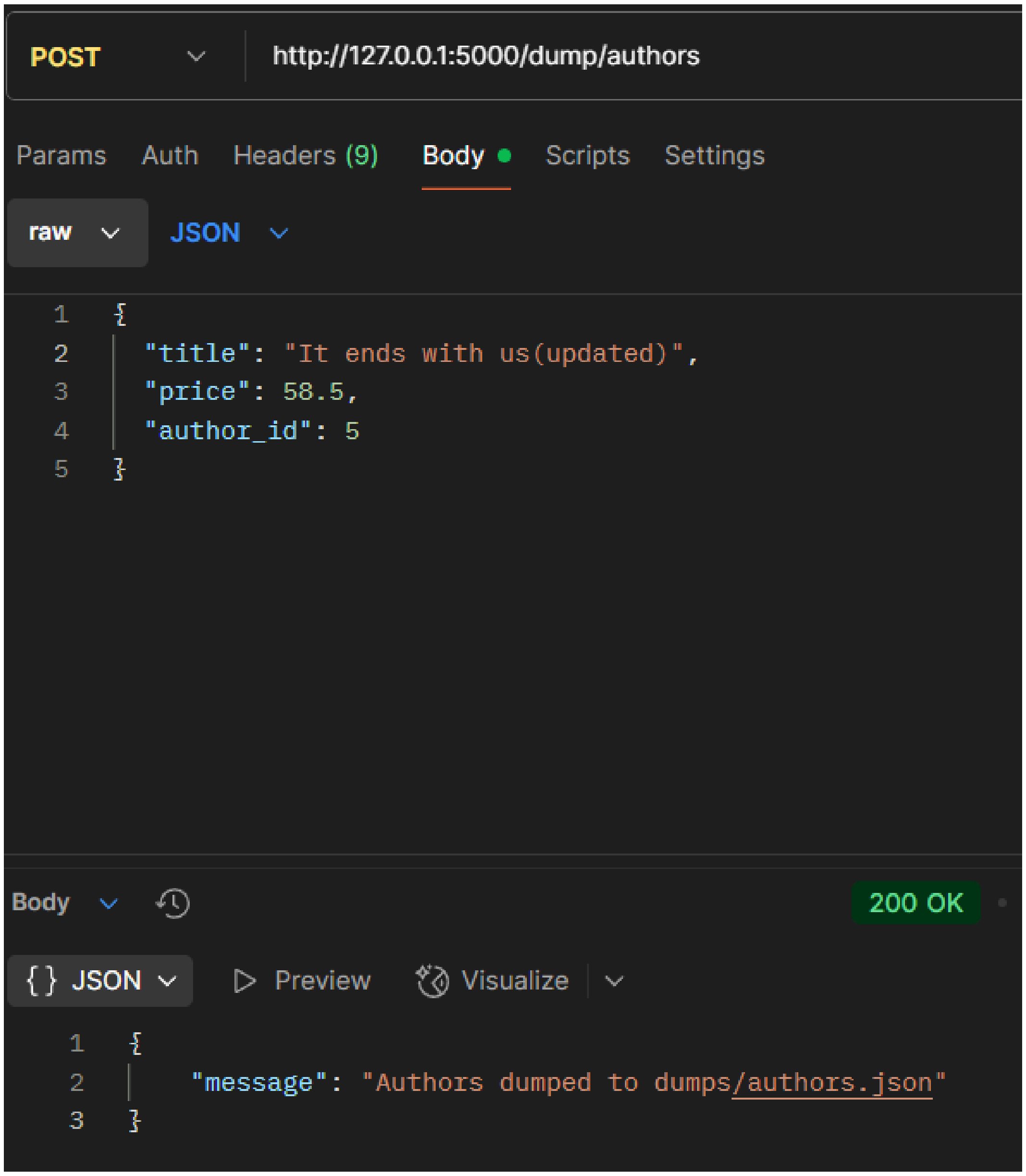
Dump Data to JSON

Dump Authors:

A file got created in dumps/authors.json



http://127.0.0.1:5000/dump/authors

```
{
  "title": "It ends with us(updated)",
  "price": 58.5,
  "author_id": 5
}
```

```
{
    "message": "Authors dumped to dumps/authors.json"
}
```

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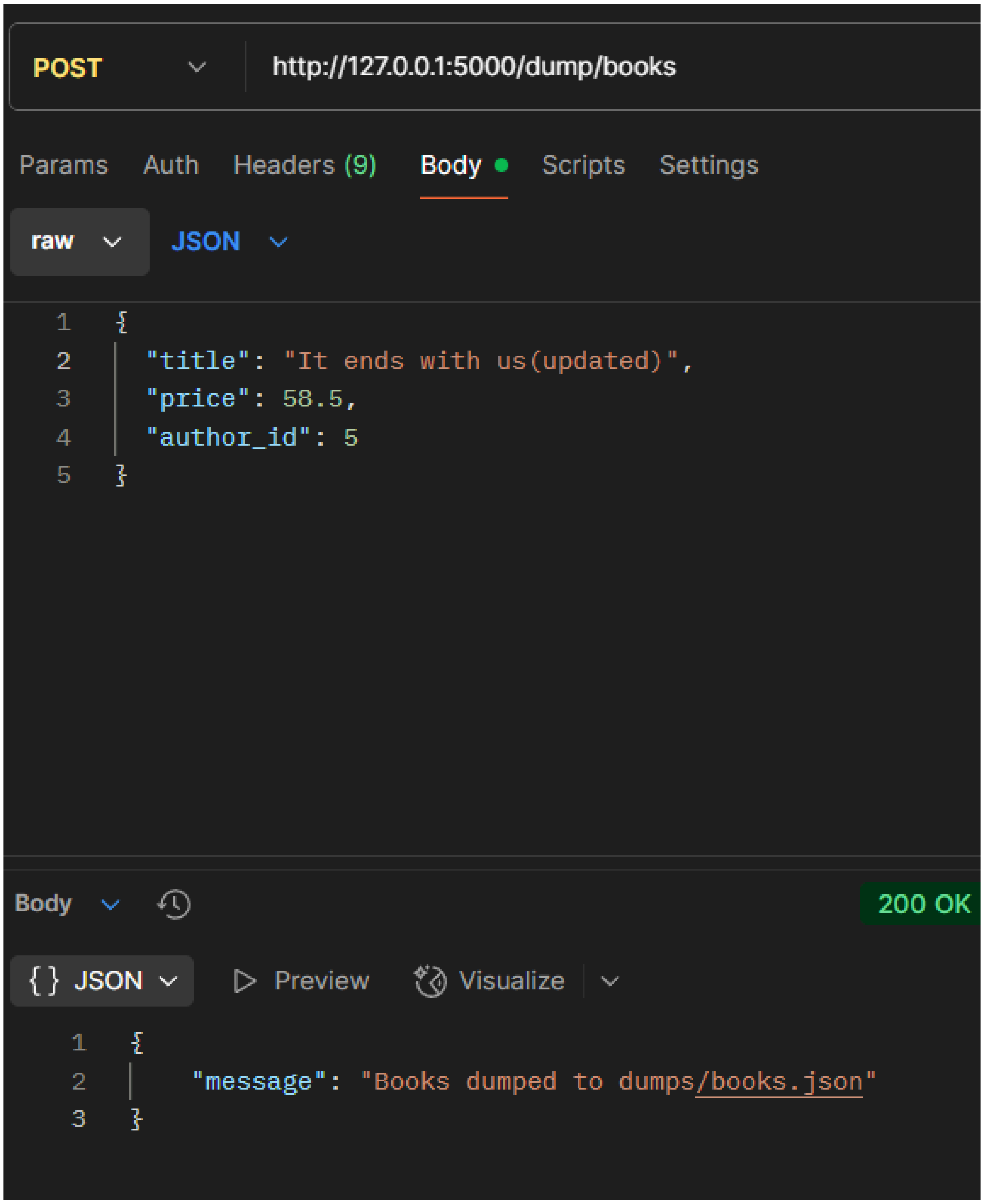
Dump Books:



POST http://127.0.0.1:5000/dump/books

```
{
  "title": "It ends with us(updated)",
  "price": 58.5,
  "author_id": 5
}
```

200 OK

```
{
    "message": "Books dumped to dumps/books.json"
}
```