Develop an Book api using python and flask

1. Create a folder in vscode and install flask microweb framework
2. Cmd:pip install flask
3. Run the below code in main.py

from flask import Flask, request, jsonify

app=Flask(\_\_name\_\_)

books\_list = [

{

"id": 0,

"autor": "J Rowling",

"language": "English",

"title": "Harry Potter",

"Genre": "Fantasy",

},

{

"id": 1,

"autor": "Cao Xueqin",

"language": "Chinese",

"title": "Dream of the Red Chamber",

"Genre": "Family Saga"

},

{

"id": 2,

"autor": "Agatha Christie",

"language": "English",

"title": "And Then There Were none",

"Genre": "Mystery",

},

{

"id": 3,

"autor": "Paulo Coelho",

"language": "English",

"title": "The Alchemist",

"Genre": "Fantasy",

},

{

"id": 4,

"autor": "Umberto Eco",

"language": "Italian",

"title": "The Name of the Rose",

"Genre": "Mystery",

},

{

"id": 5,

"autor": "Beatrix Potter",

"language": "English",

"title": "The Tale of Peter Rabbit",

"Genre": "Children Literature",

},

{

"id": 6,

"autor": "Richard Adams",

"language": "English",

"title": "Watership Down",

"Genre": "Fantasy",

},

]

@app.route('/books',methods=['GET', 'POST'])

def books():

if request.method == 'GET':

if len(books\_list) > 0:

return jsonify(books\_list)

else:

'Nothing Found',404

if request.method == 'POST':

new\_author = request.form['author']

new\_lang = request.form['language']

new\_title = request.form['title']

new\_genre = request.form['genre']

iD = books\_list[-1]['id']+1

new\_obj = {

'id': iD,

'author': new\_author,

'language': new\_lang,

'title': new\_title,

'genre': new\_genre

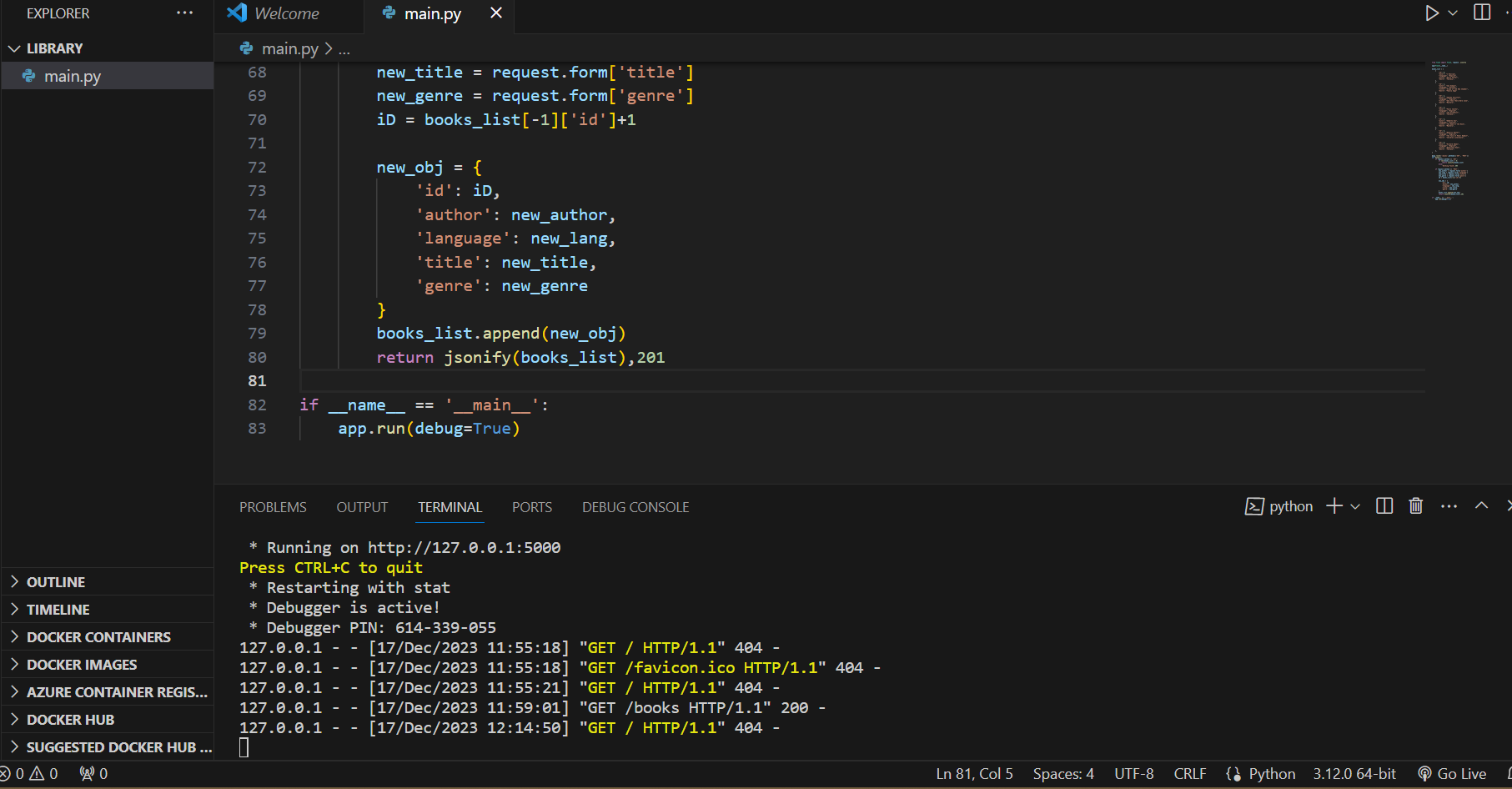
}

books\_list.append(new\_obj)

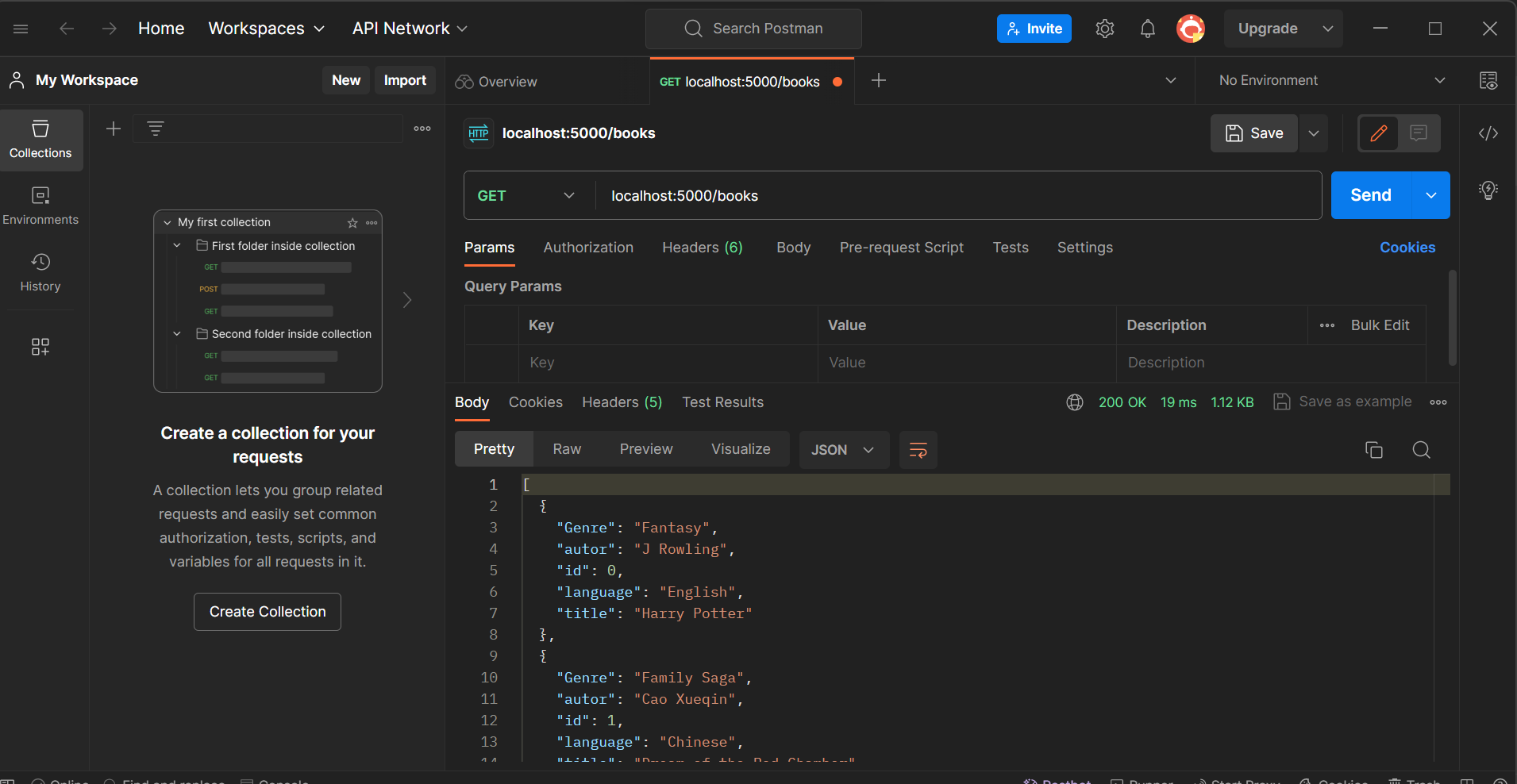
return jsonify(books\_list),201

if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug=True)

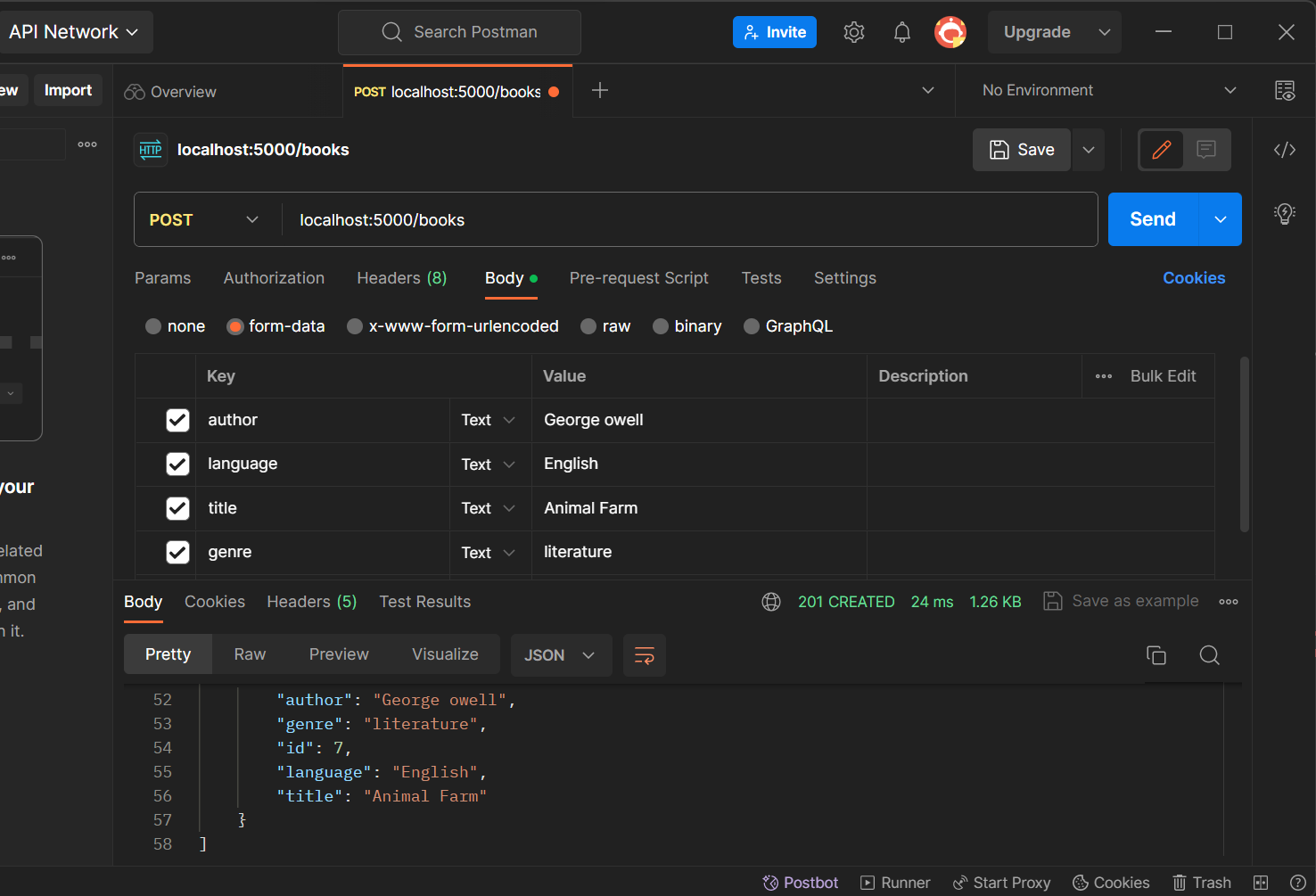


Open postman



You will get the list of books available

You can add/create any book in the list using Post method



To perform operation on single object

@app.route('/book/<int:id>', methods=['GET', 'PUT', 'DELETE'])

def single\_book(id):

    if request.method == 'GET':

        for book in books\_list:

            if book['id'] == id:

                return jsonify(book)

            pass

    if request.method == 'PUT':

        for book in books\_list:

            if book['id'] == id:

                book['author'] == request.form['author']

                book['language'] == request.form['language']

                book['title'] == request.form['title']

                book['genre'] == request.form['genre']

                updated\_book = {

                    'id': id,

                    'author': book['author'],

                    'language': book['language'],

                    'title': book['title'],

                    'genre': book['genre']

                }

                return jsonify(updated\_book)

    if request.method == 'DELETE':

        for index, book in enumerate(books\_list):

            if book-['id'] == id:

                books\_list.pop(index)

                return jsonify(books\_list)

we can update ,delete any 1 record

