

```
from flask import Flask, request, jsonify
import json
import sqlite3
```

```
app = Flask(__name__)
```

```
def db_connection():
    conn = None
    try:
        conn = sqlite3.connect("books.sqlite")
    except sqlite3.error as e:
        print(e)
    return conn
```

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

```
def books():
    conn = db_connection()
    cursor = conn.cursor()

    if request.method == "GET":
        cursor = conn.execute("SELECT * FROM book")
        books = [
            dict(id=row[0], author=row[1], language=row[2], title=row[3])
            for row in cursor.fetchall()
        ]
        if books is not None:
            return jsonify(books)
```

```
if request.method == "POST":
    new_author = request.form["author"]
    new_lang = request.form["language"]
    new_title = request.form["title"]
    sql = """INSERT INTO book (author, language, title)
            VALUES (?, ?, ?)"""
    cursor = cursor.execute(sql, (new_author, new_lang, new_title))
    conn.commit()
    return f"Book with the id: {id} created successfully", 201
```

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

```
def single_book(id):
    conn = db_connection()
    cursor = conn.cursor()
    book = None
    if request.method == "GET":
        cursor.execute("SELECT * FROM book WHERE id=?", (id,))
        rows = cursor.fetchall()
        for r in rows:
            book = r
    if book is not None:
        return jsonify(book), 200
    else:
        return "Something wrong", 404
```

```
if request.method == "PUT":
    sql = """UPDATE book
              SET title=?,
                author=?,
                language=?
              WHERE id=? """

    author = request.form["author"]
    language = request.form["language"]
    title = request.form["title"]
    updated_book = {
        "id": id,
        "author": author,
        "language": language,
        "title": title,
    }
    conn.execute(sql, (author, language, title, id))
    conn.commit()
    return jsonify(updated_book)

if request.method == "DELETE":
    sql = """ DELETE FROM book WHERE id=? """
    conn.execute(sql, (id,))
    conn.commit()
    return "The book with id: {} has been ddeleted.".format(id), 200
```