

Documentation of

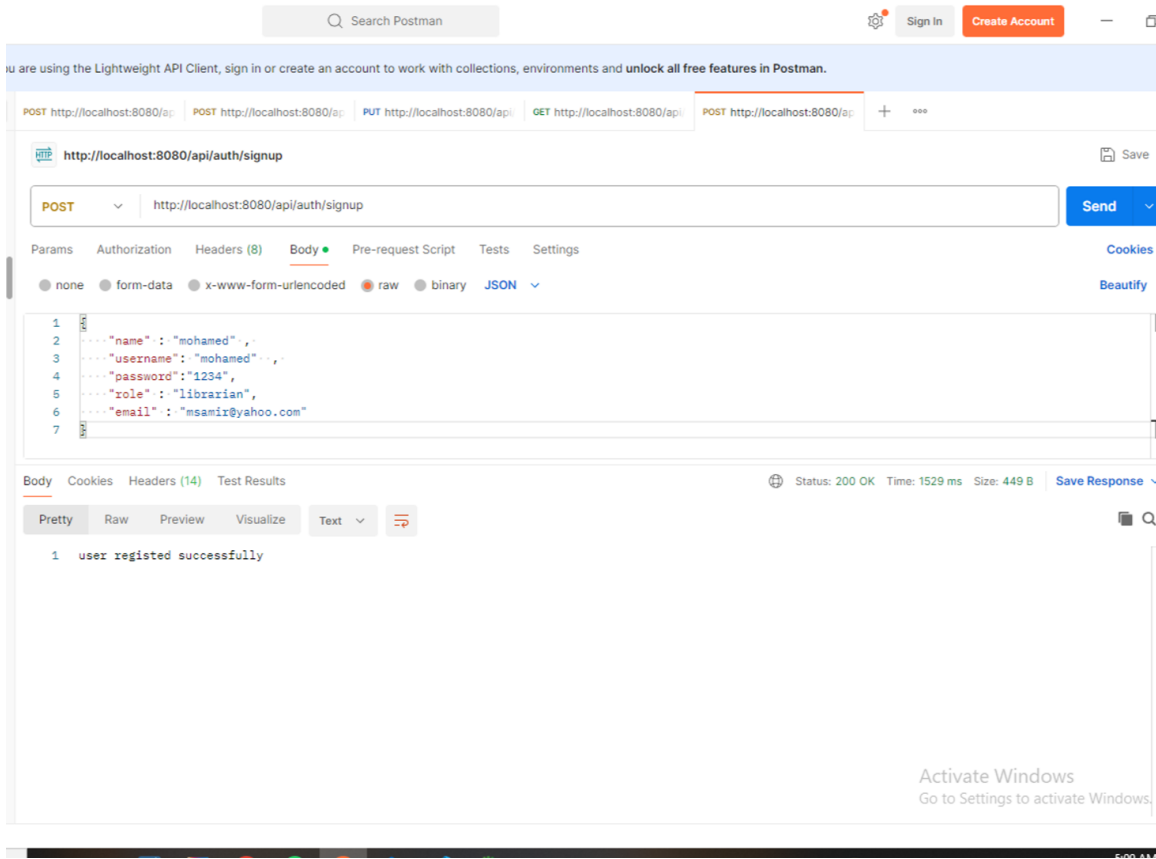
**Library Management System using
Spring Boot**

How this application is Work ?

- **Authentication**
 - First thing the User Must Authentication and Generate JWT which is used to Login
 - endPoints for authentication is :
 - POST /api/auth/signup
 - POST /api/auth/signin

- **Authorization**
 - there are two Roles :
 1. **LIBRARIAN** : have access to read all books or patrons and can create Books and update Books and delete books .

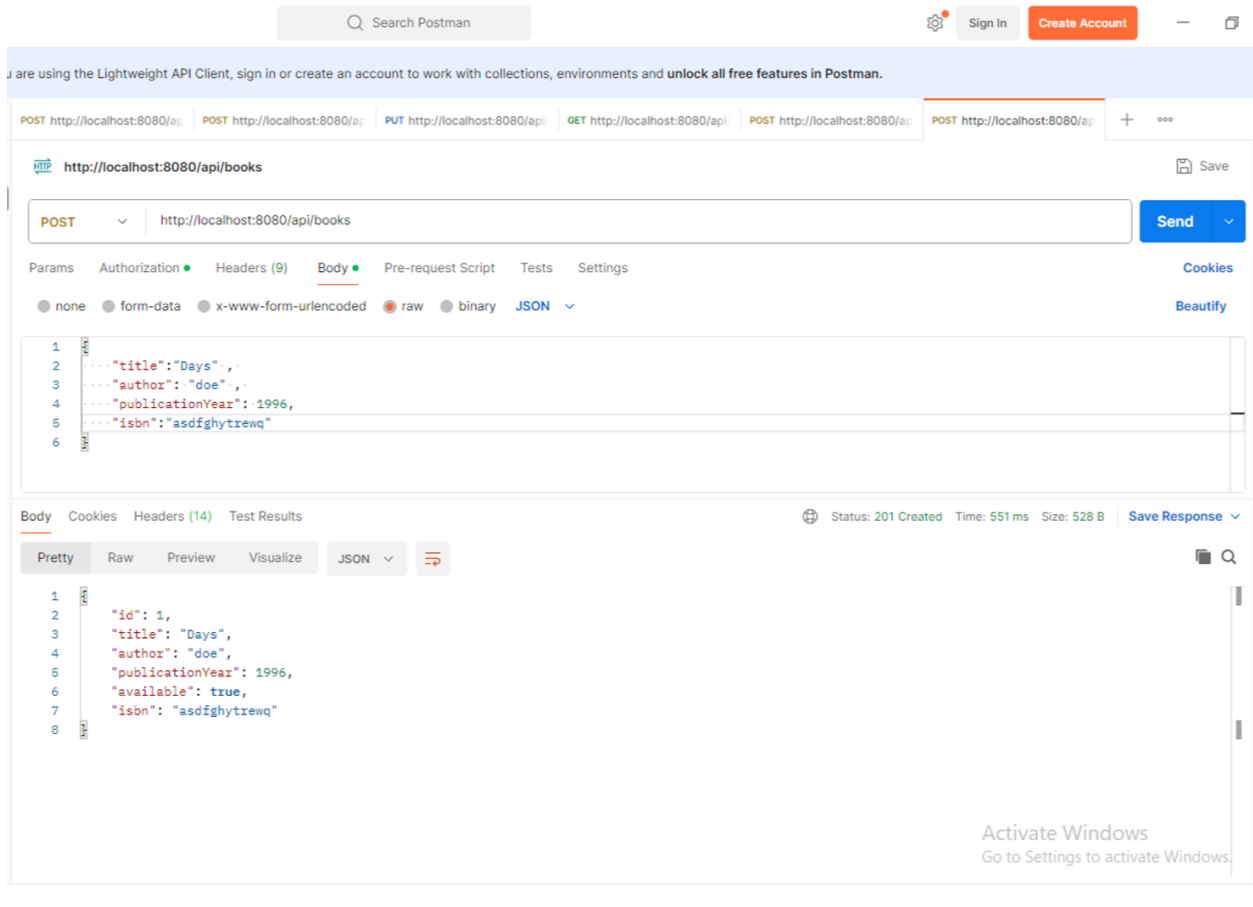
 2. **PATRON** : have access to read all books or patrons and can create Patron and update patrons and delete patrons .



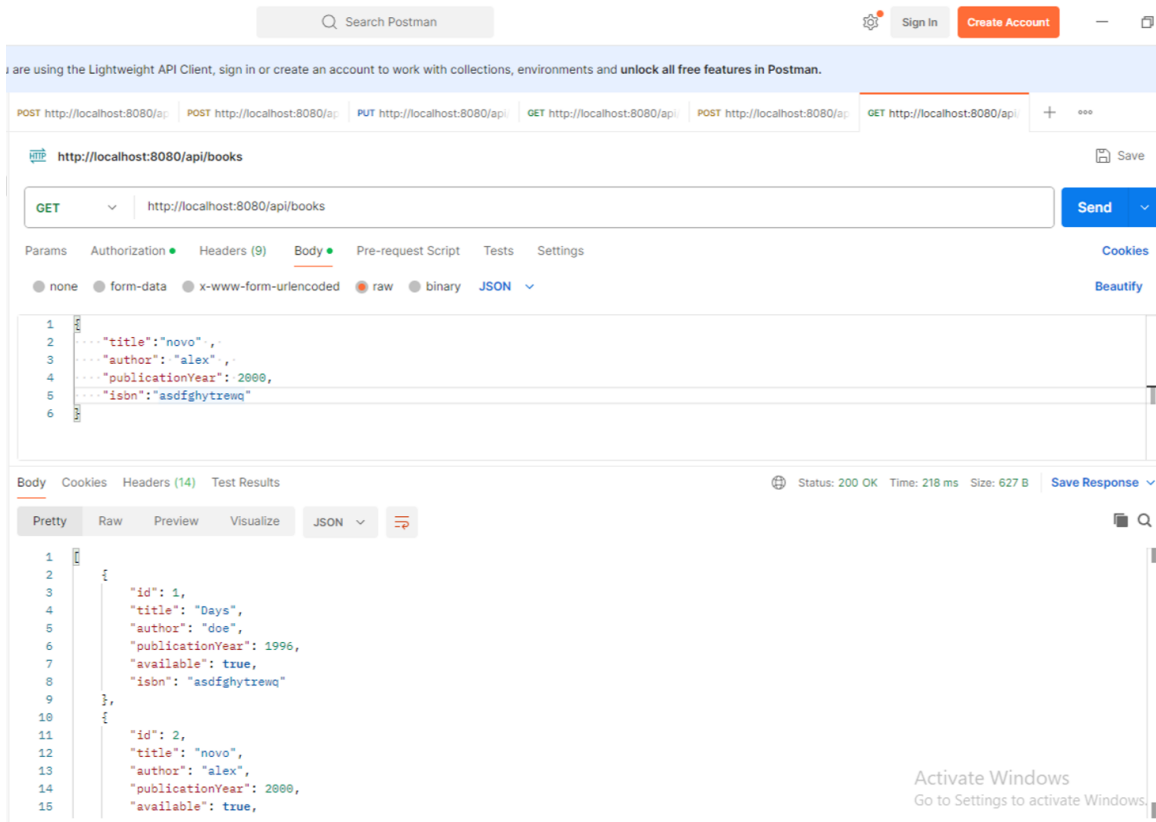
Sign up endpoint

Book endpoints

- **POST /api/books** : to create a new book by only LIBRARIAN role



- **GET /api/books** : to retrieve all books by LIBRARIAN or PATRON



- **GET /api/books/{id}** : to retrieve specific book it can be by **LIBRARIAN** or **PATRON**

Search Postman

Sign In Create Account

Using the Lightweight API Client, sign in or create an account to work with collections, environments and unlock all free features in Postman.

GET http://localhost:8080/api/ POST http://localhost:8080/api/ PUT http://localhost:8080/api/ GET http://localhost:8080/api/ POST http://localhost:8080/api/ GET http://localhost:8080/api/ + ...

http://localhost:8080/api/books Save

GET http://localhost:8080/api/books/1 Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookie

Query Params

Key	Value	Bulk Edit
Key	Value	

Body Cookies Headers (14) Test Results Status: 200 OK Time: 123 ms Size: 523 B Save Response

Pretty Raw Preview Visualize JSON

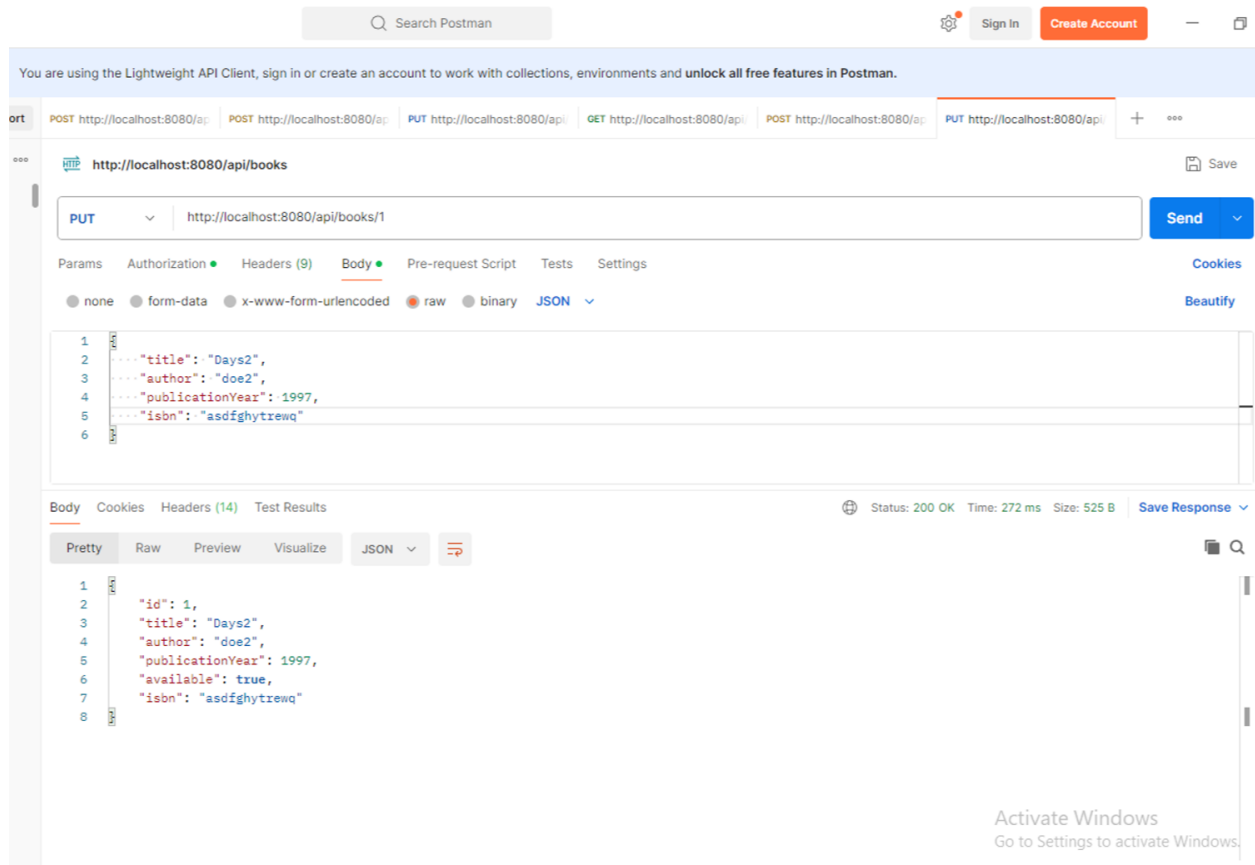
```

1  {
2    "id": 1,
3    "title": "Days",
4    "author": "doe",
5    "publicationYear": 1996,
6    "available": true,
7    "isbn": "asdfghytrewq"
8  }

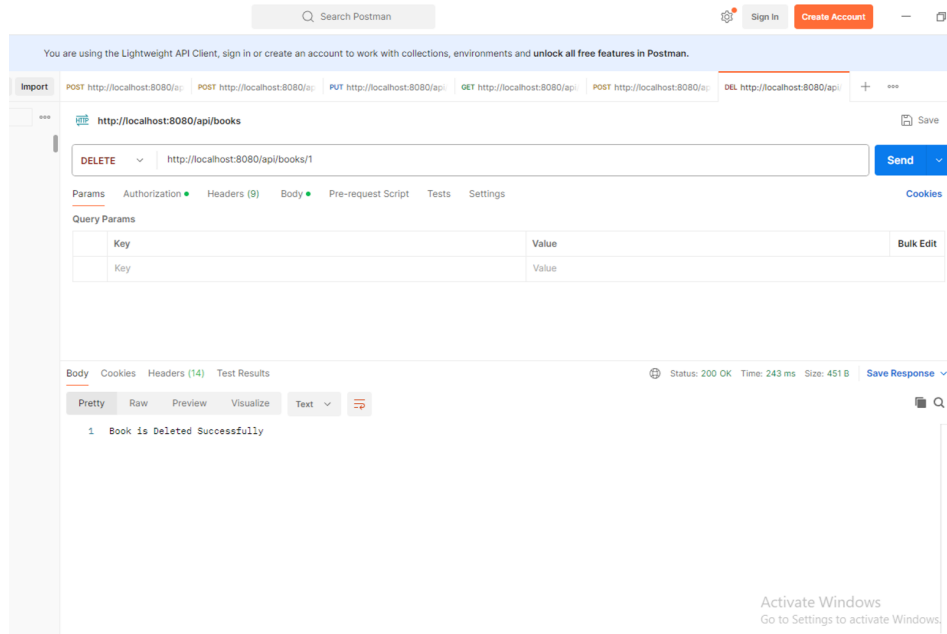
```

Activate Windows
Go to Settings to activate Windows

- **UPDATE /api/books/{id} : to update specific book it can be by LIBRARIAN**

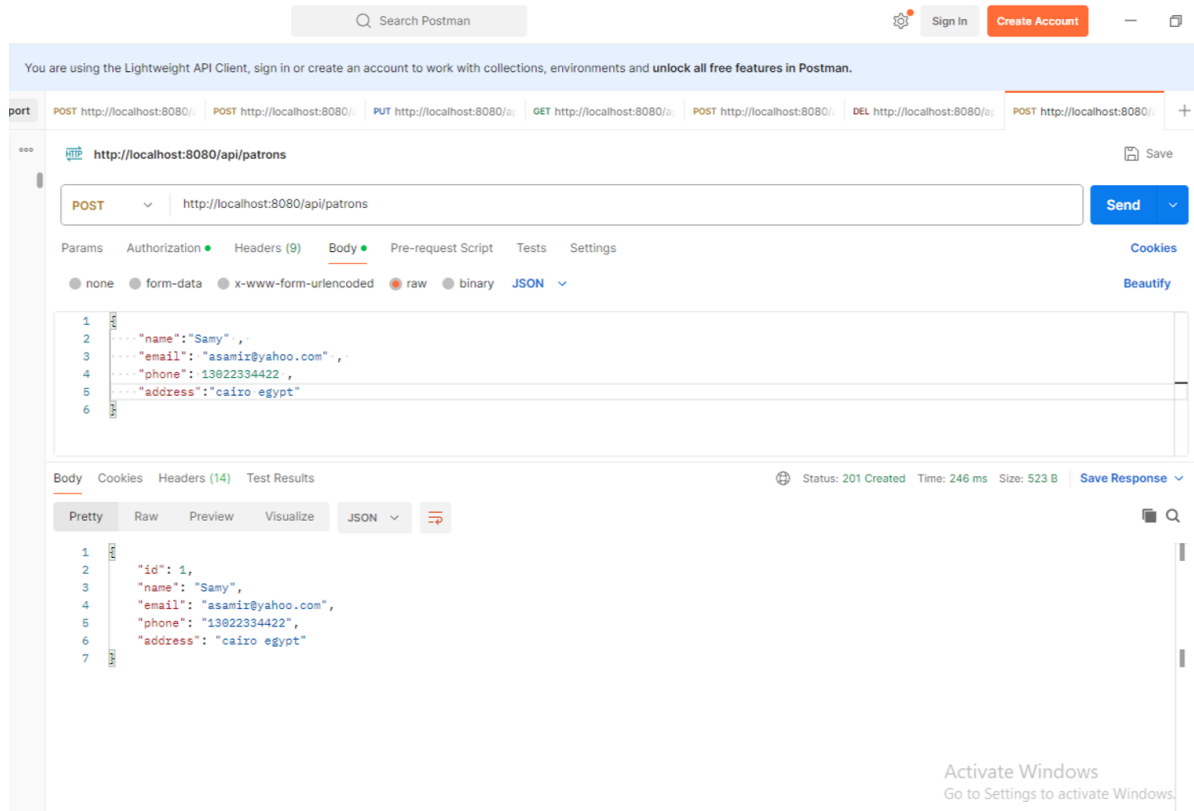


- **DELETE /api/books/{id} : to delete specific book it can be by LIBRARIAN**

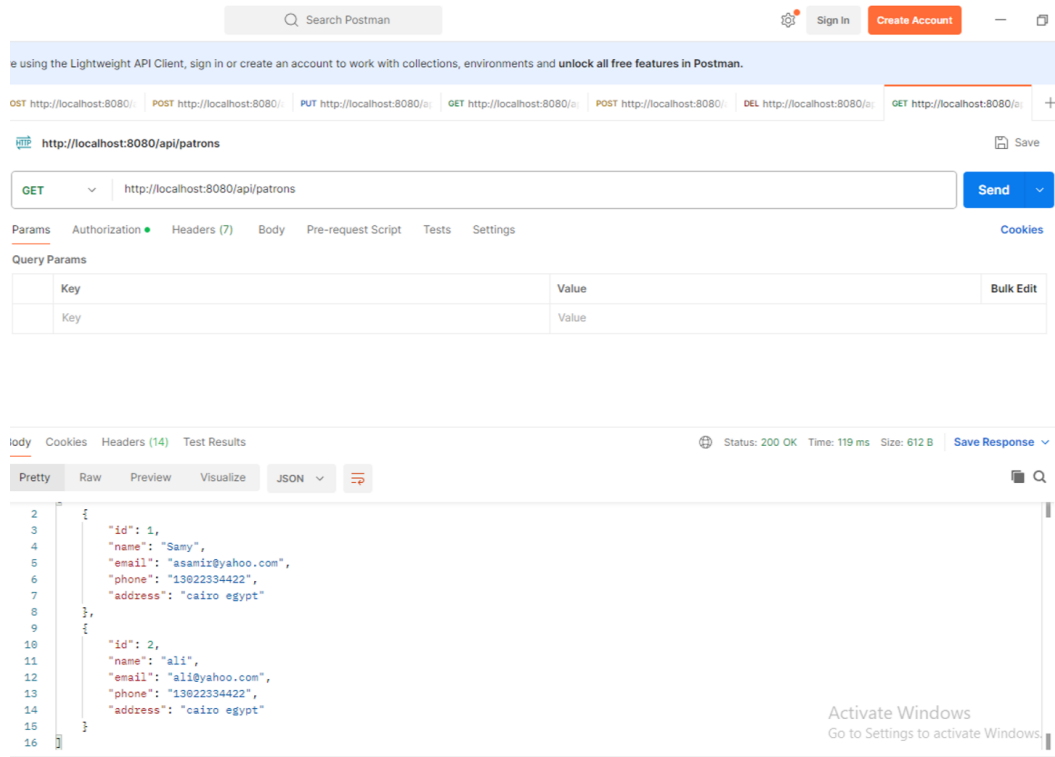


Patron endpoints is

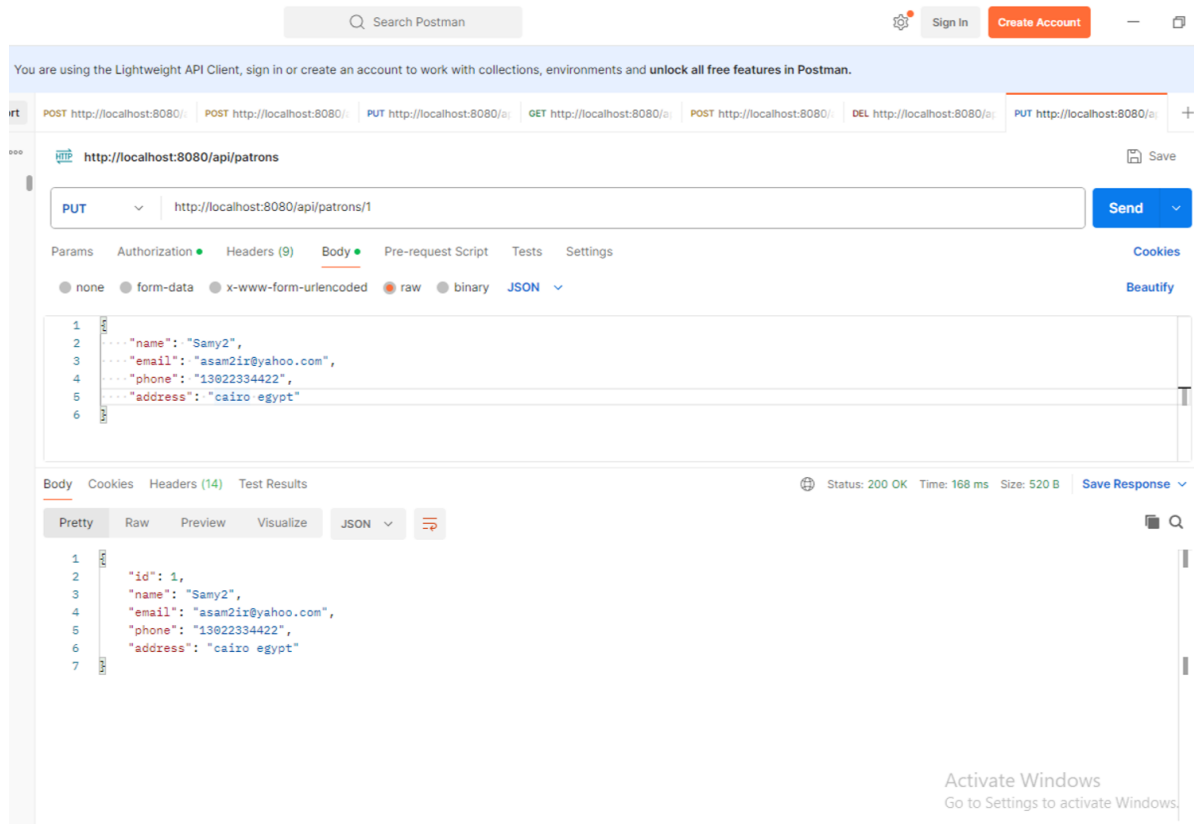
- **POST /api/patrons** : to create a new patron it by only patron role



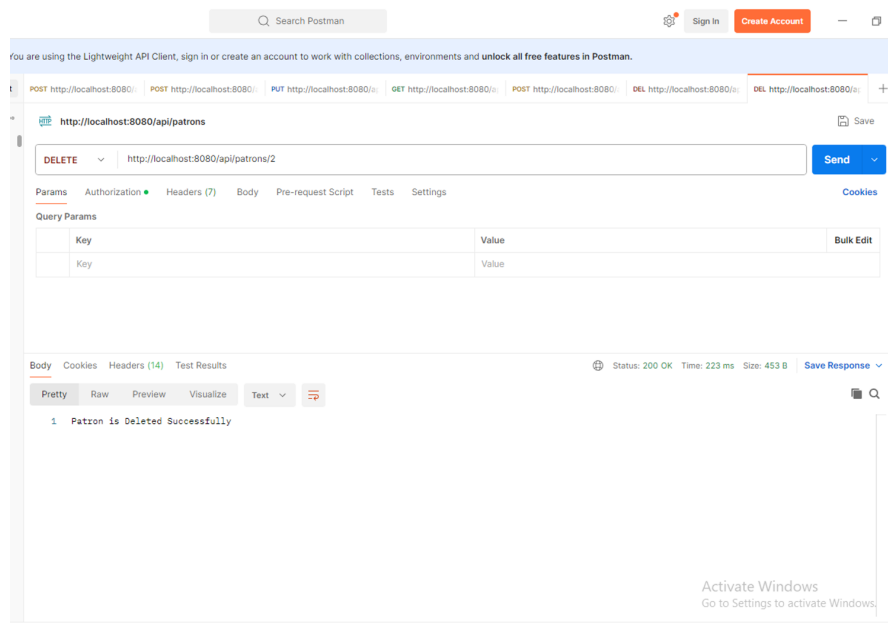
- **GET /api/patrons** : to get all patrons it by patron or librarian role



- **UPDATE/api/patrons/{id}** : to update patrons it by patron role

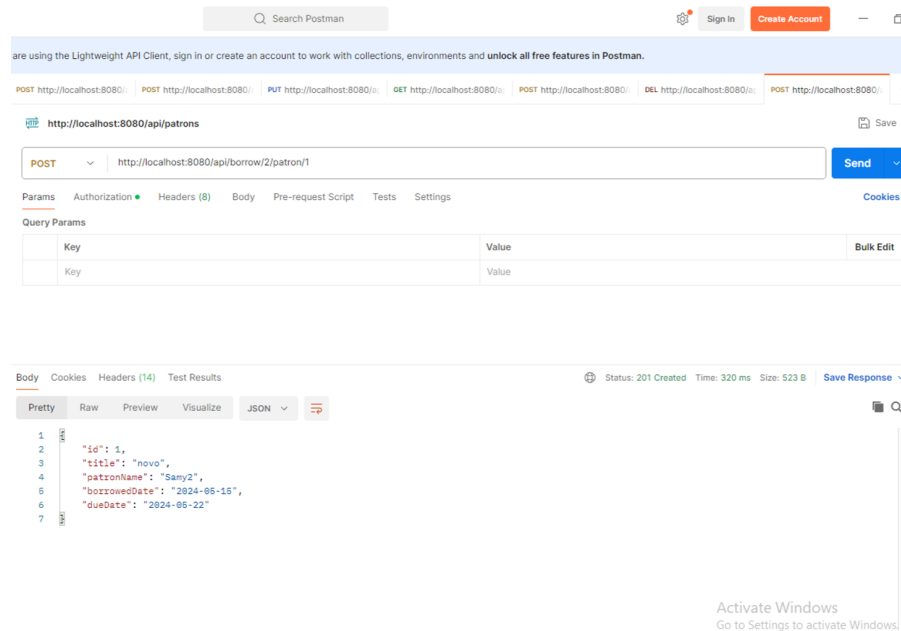


- DELETE /api/patrons/{id} to delete patron by id it by patron Role



Borrow endpoints is

- **POST /api/borrow/{bookId}patron/{patronId}** to allow patron to borrow a book and it save in record table



- **UPDATE /api/return/{bookId}patron/{patronId}** to allow patron to return a book and it save in record table it by patron Role .

Search Postman

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Create Account

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POST http://localhost:8080/

POST http://localhost:8080/

PUT http://localhost:8080/

GET http://localhost:8080/

POST http://localhost:8080/

DEL http://localhost:8080/

PUT http://localhost:8080/

+

http://localhost:8080/api/patrons

Save

PUT

http://localhost:8080/api/return/2/patron/1

Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

Key	Value	Bulk Edit
Key	Value	

Body

Cookies

Headers (14)

Test Results

Status: 200 OK Time: 205 ms Size: 518 B Save Response

Pretty

Raw

Preview

Visualize

JSON

1

2

3

4

5

6

7

TEXT

```
"id": 1,  
"title": "novo",  
"patronName": "Samy2",  
"borrowedDate": "2024-06-15",  
"dueDate": "2024-06-22"
```

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