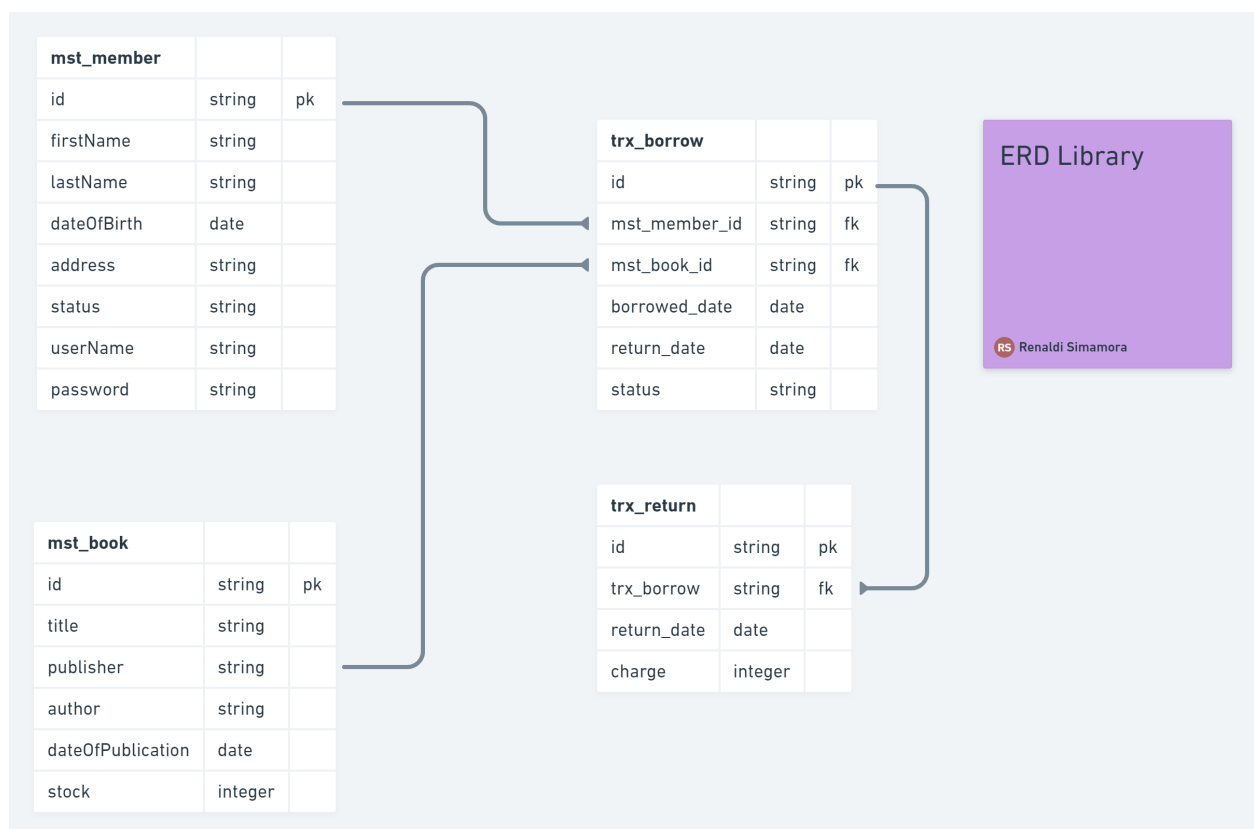




## Challenge → Spring Boot

### ER Diagram for library



Library Book API build with Spring Boot Java 🔥

status: Maintained 🚀

## Documentation

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### Book

Endpoint	URL	Method	example
Get books	/books	GET	-
Get book by id	/books/{id}	GET	/books/1
Get books by limit	/books?limit=size	GET	/books?limit=5
Create book	/books	POST	-
Update book	/books	PUT	-
Delete book	/books?bookId={id}	DELETE	/books?bookId=1

[JSON] Request body create book, Example:

```
{
  "title": "midnight with you",
  "publisher": "republika",
  "author": "rey",
  "yearOfPublication": "2020-08-12",
  "stock": 10
}
```

[JSON] Request body update book, Example:

```
{
  "id": "8a8ab2af80300ccc0180300f7e220002",
  "title": "Shining, shimmering",
  "publisher": "gramedia",
  "author": "renalldi",
  "yearOfPublication": "2017-01-25",
  "stock": 10
}
```

---

Example Result:

- Get list book request param

GET Get All Book

server-local

Snap Library API / Book / Get All Book

GET `{{local}}/books?page=1&limit=2&sortBy=title&direct=desc` Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

Query Params

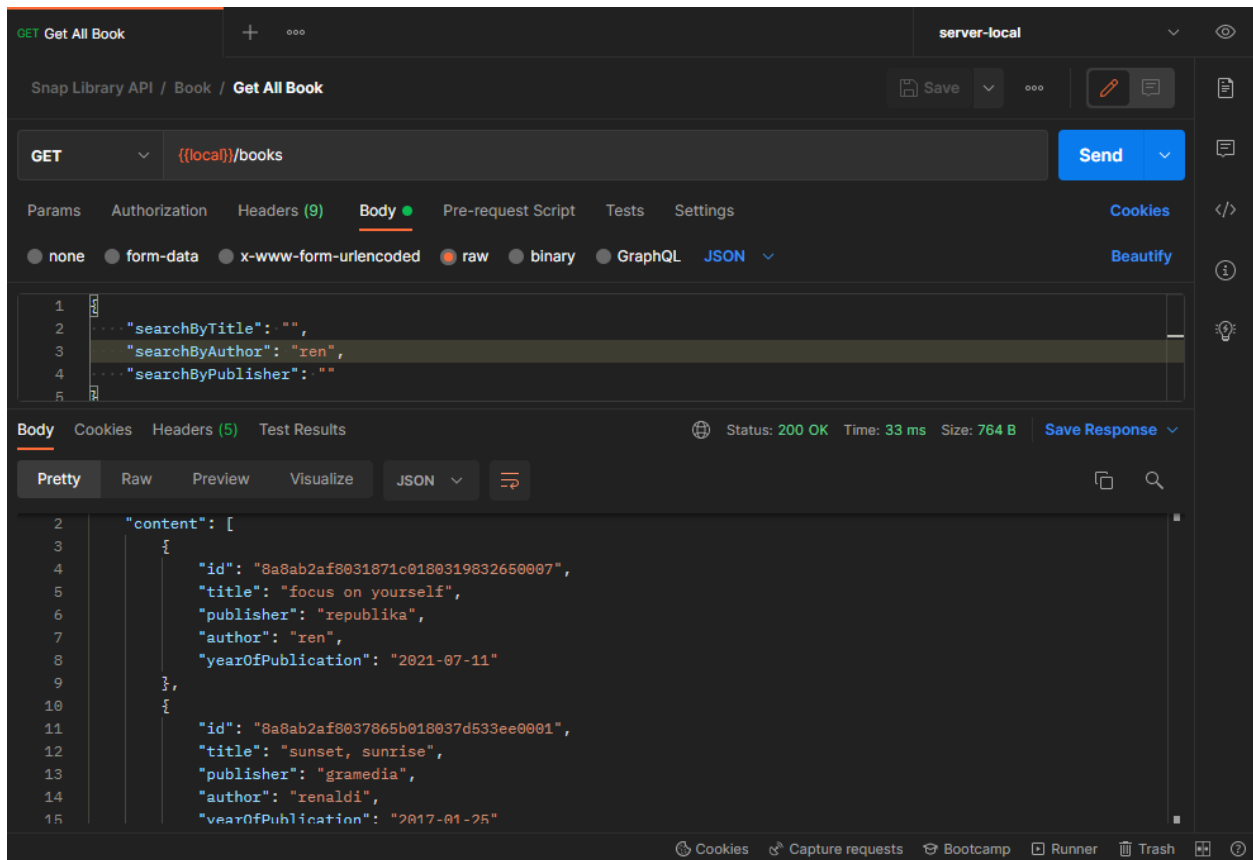
	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	page	1			
<input checked="" type="checkbox"/>	limit	2			
<input checked="" type="checkbox"/>	sortBy	title			
<input checked="" type="checkbox"/>	direct	desc			

Body Cookies Headers (5) Test Results Status: 200 OK Time: 222 ms Size: 783 B Save Response

Pretty Raw Preview Visualize JSON

```
14      "author": "kenzo",
15      "yearOfPublication": "2020-10-28"
16    },
17  ],
18  "pageable": {
19    "sort": {
20      "empty": false,
21      "sorted": true,
22      "unsorted": false
23    },
```

- Get list book by request body [JSON] → search



- Get list book by path param id

GET Get Book By Id server-local

Snap Library API / Book / Get Book By Id Save

GET {{(local)}}/books/8a8ab2af8031871c0180319478d60004 Send

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

Query Params

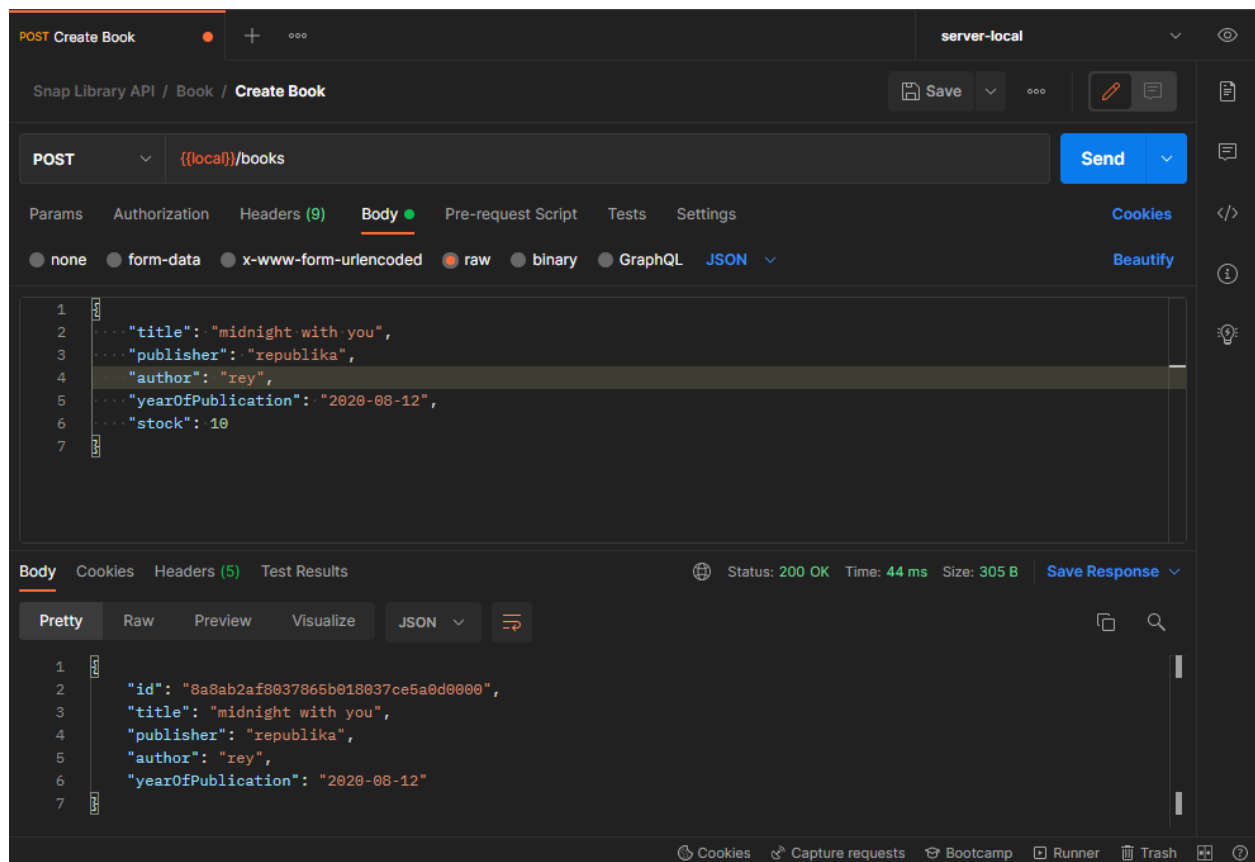
KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (5) Test Results Status: 200 OK Time: 51 ms Size: 307 B Save Response

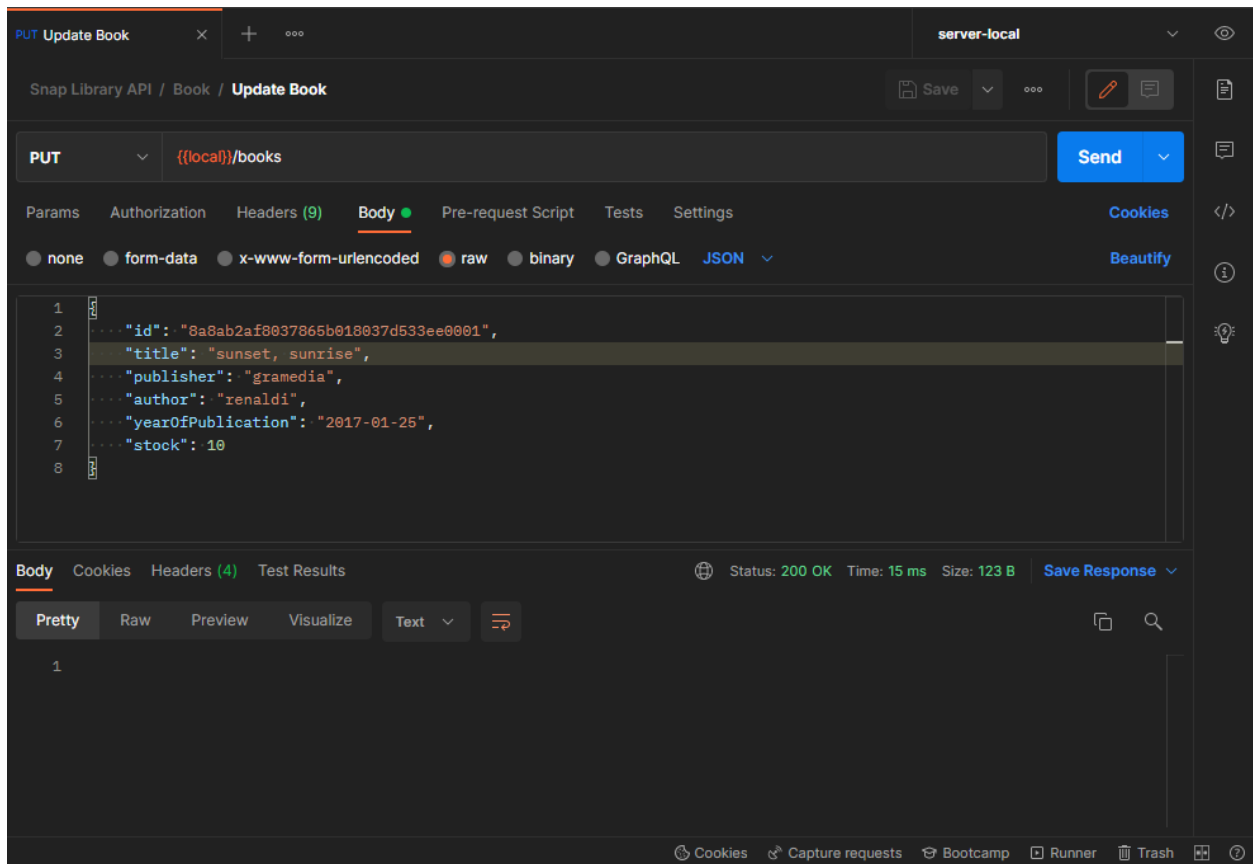
Pretty Raw Preview Visualize JSON

```
1  {
2    "id": "8a8ab2af8031871c0180319478d60004",
3    "title": "how to manage money",
4    "publisher": "erlangga",
5    "author": "riki",
6    "yearOfPublication": "2015-07-28"
7  }
```

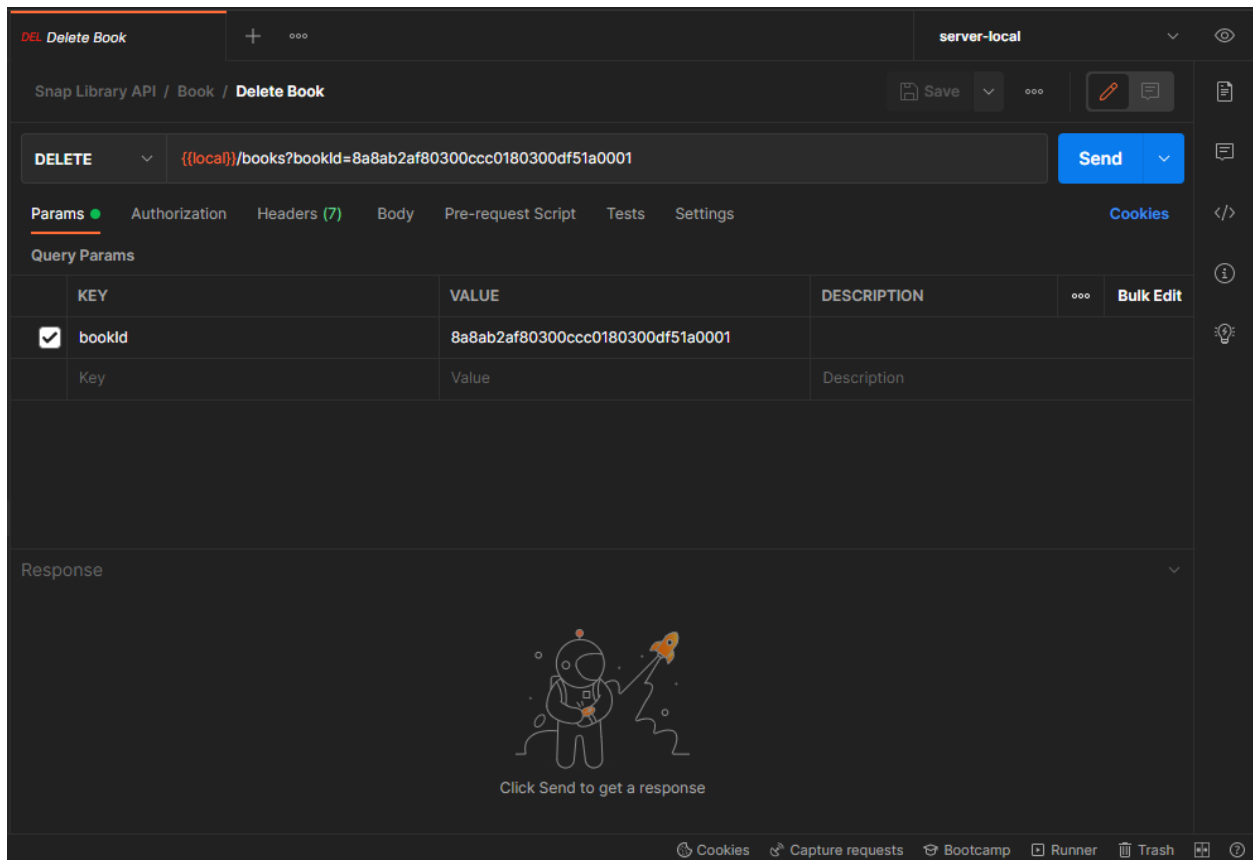
- Create book



- Update book



- Delete book



## Member

Endpoint	URL	Method	example
Get members	/members	GET	-
Get member by id	/members/{id}	GET	/members/1
Get members by limit	/members?limit=size	GET	/members?limit=5
Create member	/members	POST	-
Update member	/members	PUT	-
Delete member	/members?memberId={id}	DELETE	/members?memberId=1

[JSON] Request body create member, Example:

```
{  
  "firstName": "fajar",  
}
```



```
"lastName": "maulanan",
"dateOfBirth": "1991-03-25",
"address": "jln pelabuhan",
"status": "aktif",
"userName": "cumi",
"password": "123"
}
```

[JSON] Request body update member, Example:

```
{
  "id": "8a8ab2af8038224c018038270c020000",
  "firstName": "fajar",
  "lastName": "maulana putra",
  "dateOfBirth": "1991-03-25",
  "address": "jln suka tani",
  "status": "aktif",
  "userName": "cumi"
}
```

---

Example Result:

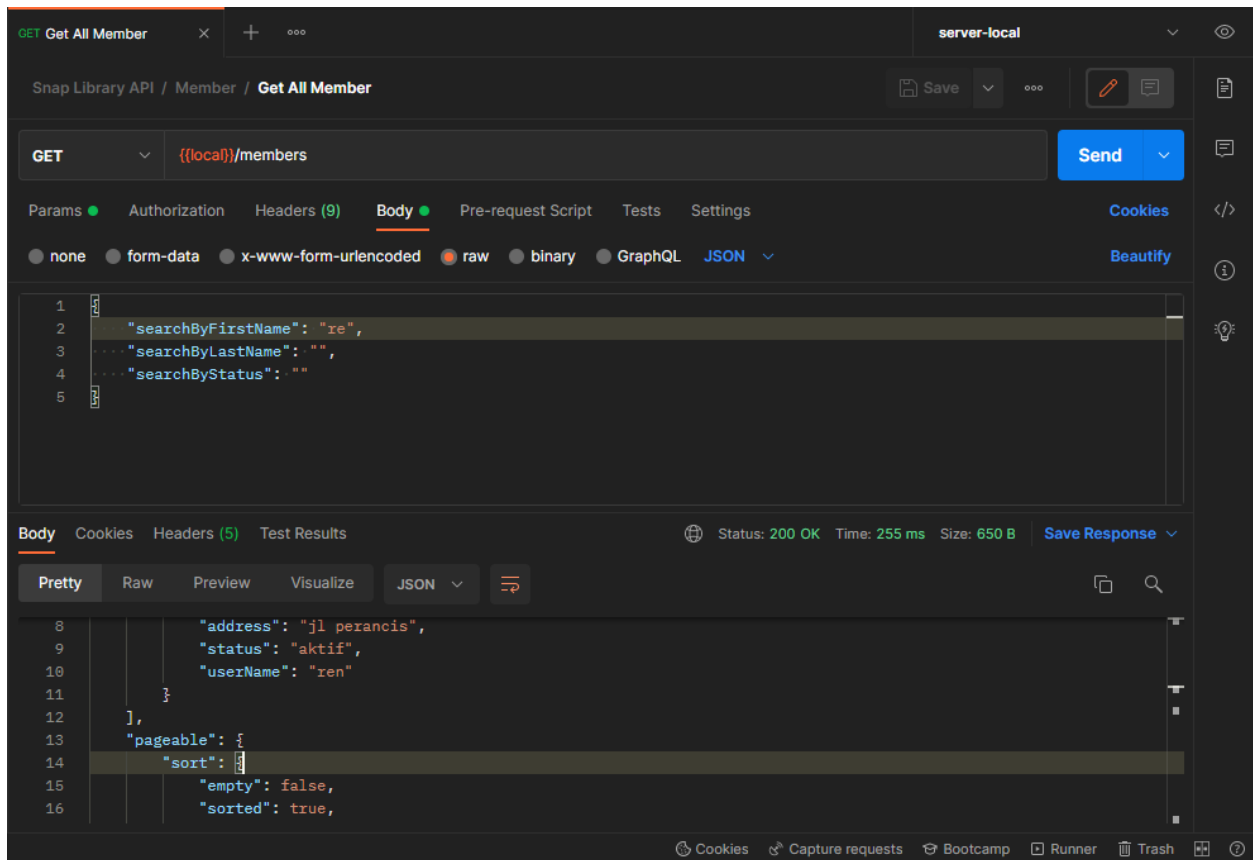
- Get list member request param

The screenshot shows a REST client interface with the following details:

- Request Method:** GET
- URL:** `{{local}}/members?page=1&limit=2`
- Params:** page=1, limit=2
- Status:** 200 OK
- Time:** 46 ms
- Size:** 824 B
- Response Body (JSON):**

```
{
  "content": [
    {
      "id": "8a8ab2af8031871c01803192aca70002",
      "firstName": "mutia",
      "lastName": "safitri",
      "dateOfBirth": "1999-05-17",
      "address": "jl tiga sodara",
      "status": "aktif",
      "userName": "mutia"
    },
    {
      "id": "8a8ab2af8031871c0180318760bc0000",
      "firstName": "renaldi",
      "lastName": "simamora",
      ...
    }
  ]
}
```

- Get list member by request body [JSON] → search



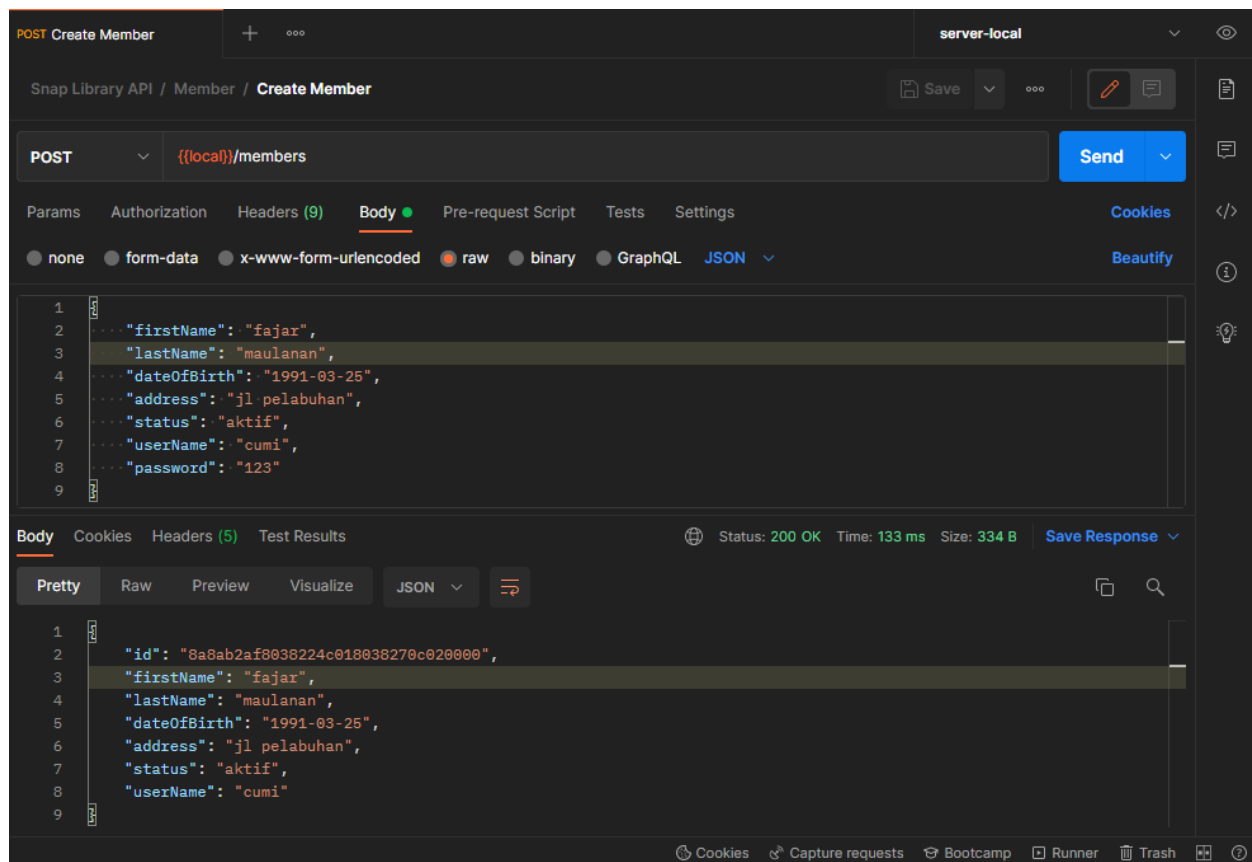
- Get list member by path param id

The screenshot shows a REST client interface with the following details:

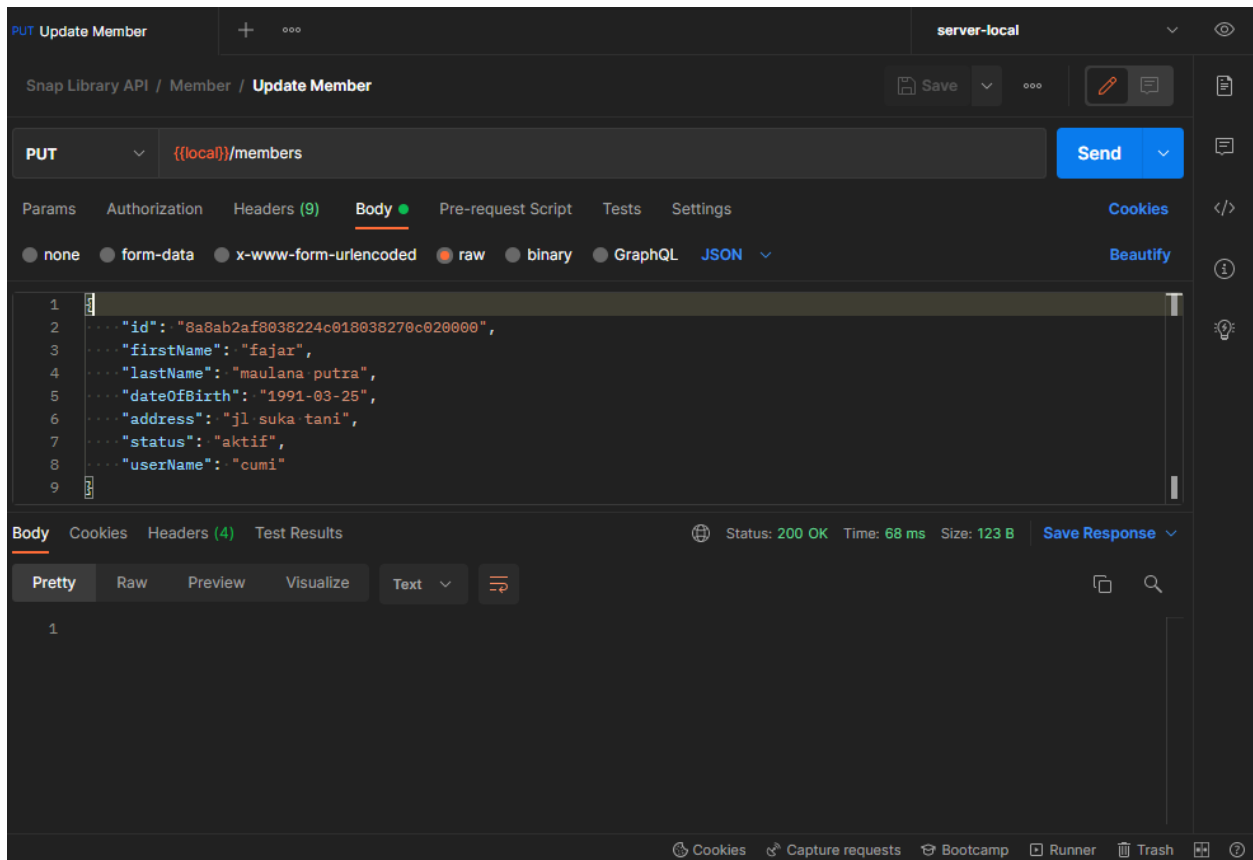
- Request:** GET `{{local}}/members/8a8ab2af8031871c0180318760bc0000`
- Response Status:** 200 OK, Time: 40 ms, Size: 334 B
- Response Body (JSON):**

```
{  "id": "8a8ab2af8031871c0180318760bc0000",  "firstName": "renaldi",  "lastName": "simamora",  "dateOfBirth": "1999-10-31",  "address": "jl perancis",  "status": "aktif",  "userName": "ren"}
```

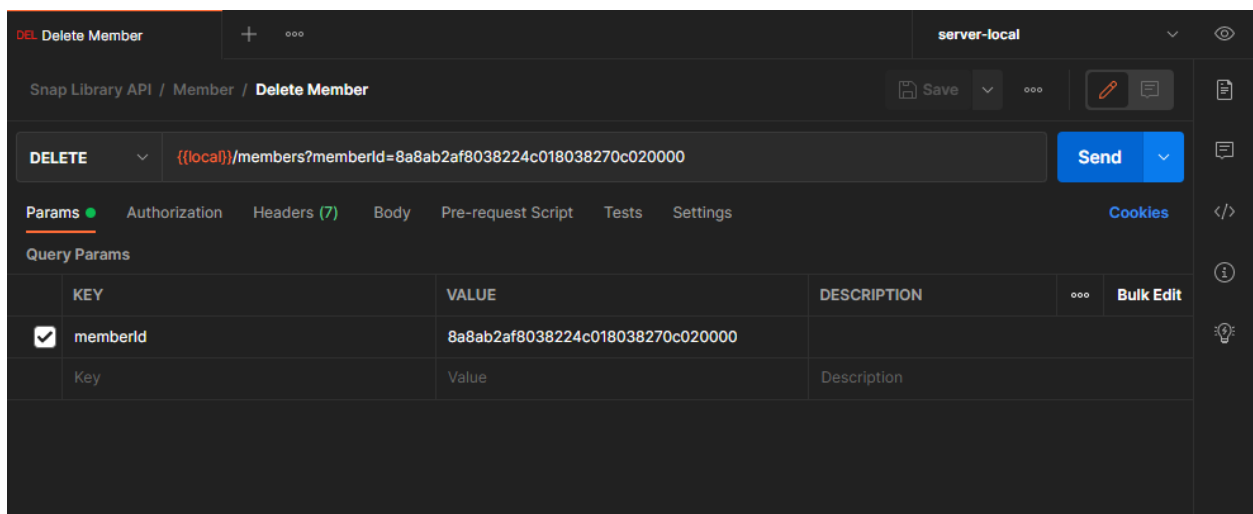
- Create member



- Update member



- Delete member



## Borrow Book

Endpoint	URL	Method	example
Get borrow book	/borrows	GET	-
Get borrow book by id	/borrows/{id}	GET	/members/1
Create borrow book	/borrows	POST	-
Update borrow book	/borrows	PUT	-

[JSON] Request body create borrow book, Example:

```
{
  "member": {"id": "8a8ab2af8031871c01803193d8ab0003"},
  "book": {"id": "8a8ab2af8031871c018031952cdb0005"}
}
```

[JSON] Request body update borrow book, Example:

```
{
  "id": "8a8ab2af8037245601803724fdb70001",
  "member": {
    "id": "8a8ab2af8031871c01803193d8ab0003"
  },
  "book": {
    "id": "8a8ab2af8031871c01803196d8180006"
  },
  "status": "Active"
}
```

Example Result:

- Get borrow book by id

GET Get Borrow Book By Id × + ... server-local

Snap Library API / Borrow Book / Get Borrow Book By Id Save ...

GET {{local}}/borrows/8a8ab2af803802c0018038049a440000 Send

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

Query Params

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input type="checkbox"/>	borrowBookId	8a8ab2af803693e901803696bb780001			
	Key	Value	Description		

Body Cookies Headers (5) Test Results Status: 200 OK Time: 47 ms Size: 607 B Save Response

Pretty Raw Preview Visualize JSON

```

1  {
2    "id": "8a8ab2af803802c0018038049a440000",
3    "member": {
4      "id": "8a8ab2af8031871c01803193d8ab0003",
5      "firstName": "jack",
6      "lastName": "sparrow",
7      "dateOfBirth": "1991-03-25",
8      "address": "jl pegadungan",
9      "status": "aktif",

```

Cookies Capture requests Bootcamp Runner Trash

- Create borrow book

POST Create Borrow Book × + ... server-local

Snap Library API / Borrow Book / Create Borrow Book Save ...

POST {{local}}/borrows Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

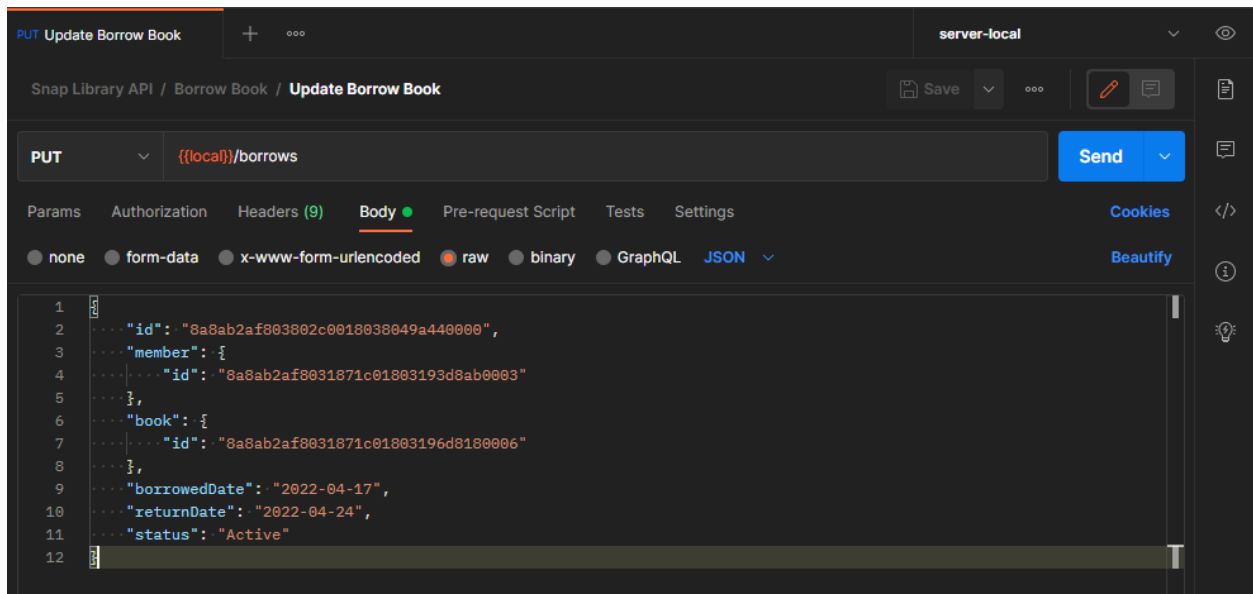
```

1  {
2    "member": {"id": "8a8ab2af8031871c01803193d8ab0003"},
3    "book": {"id": "8a8ab2af8031871c018031952cdb0005"}
4  }

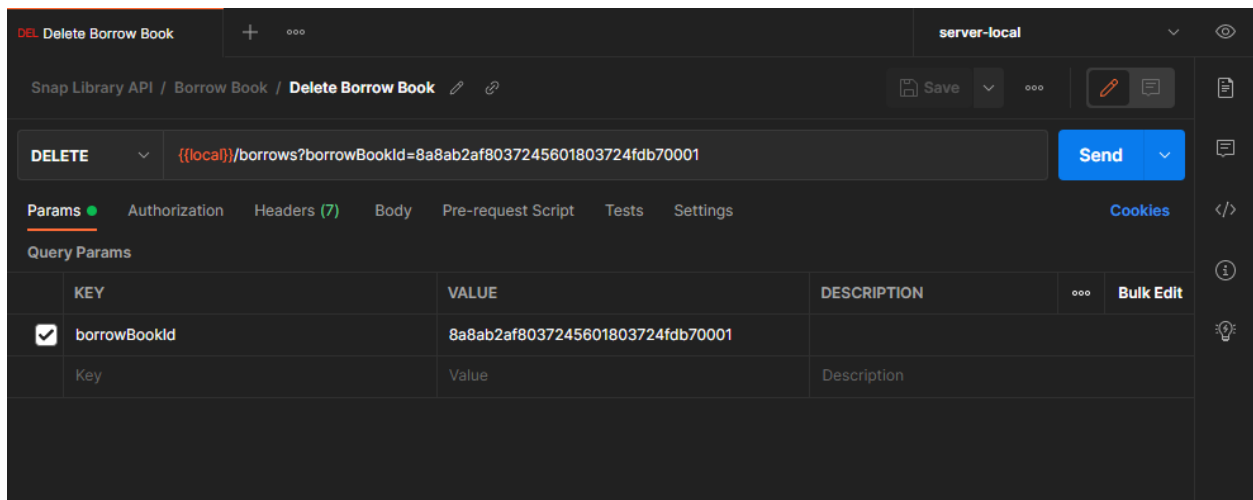
```

- Update borrow book





- Delete borrow book



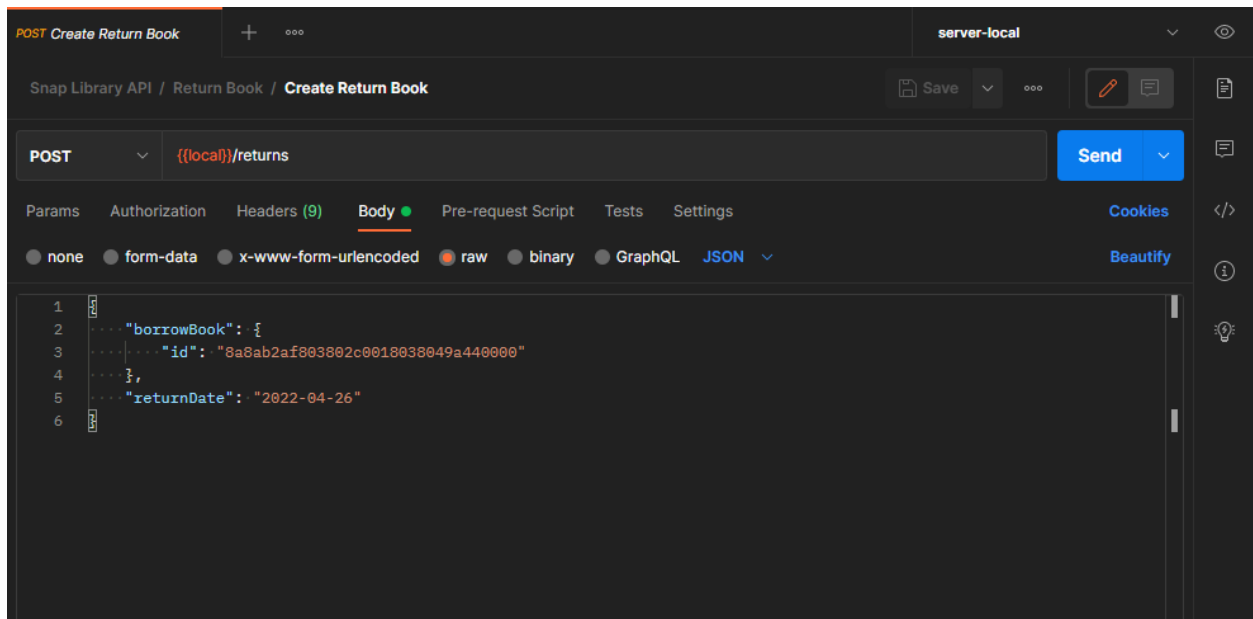
## Return Book

Endpoint	URL	Method	example
Create return book	/returns	POST	-

[JSON] Request body create return book, Example:

```
{
  "borrowBook": {
    "id": "8a8ab2af803802c0018038049a440000"
  },
  "returnDate": "2022-04-26"
}
```

Example Result:



## Credits

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Build With 