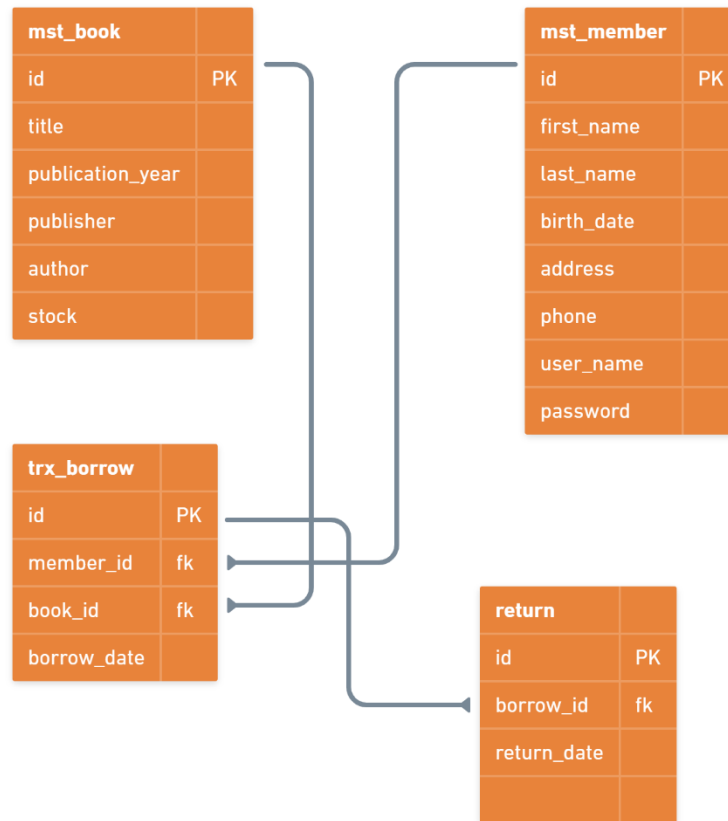


Fajar Perdana Nasution

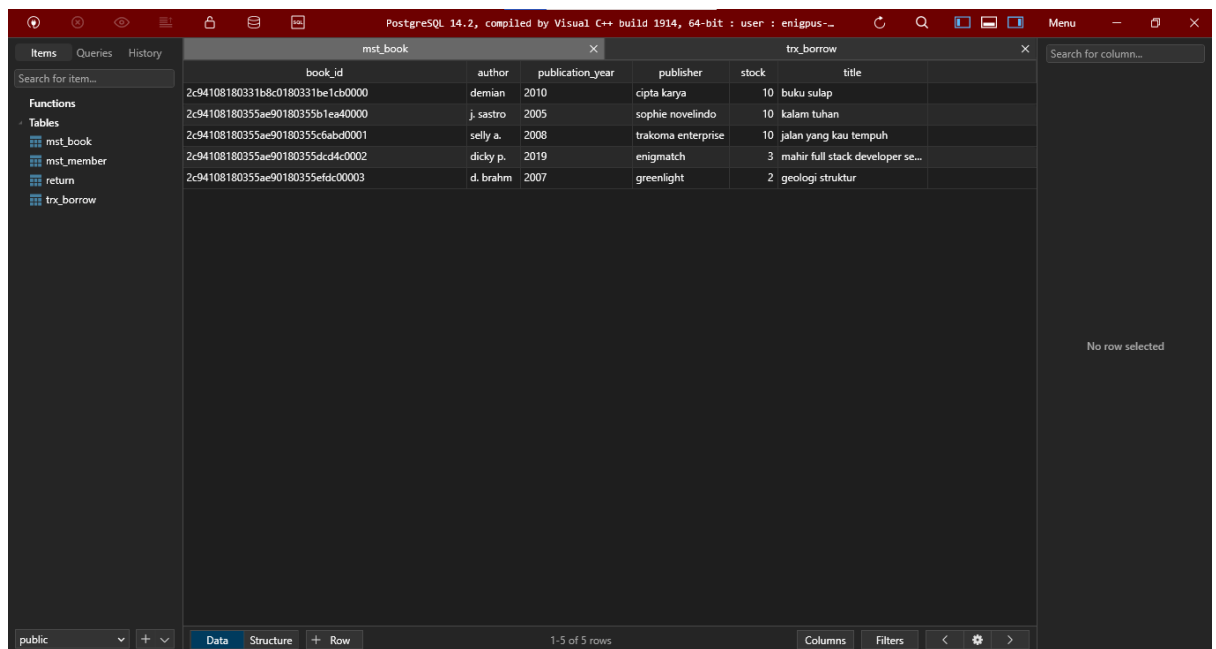
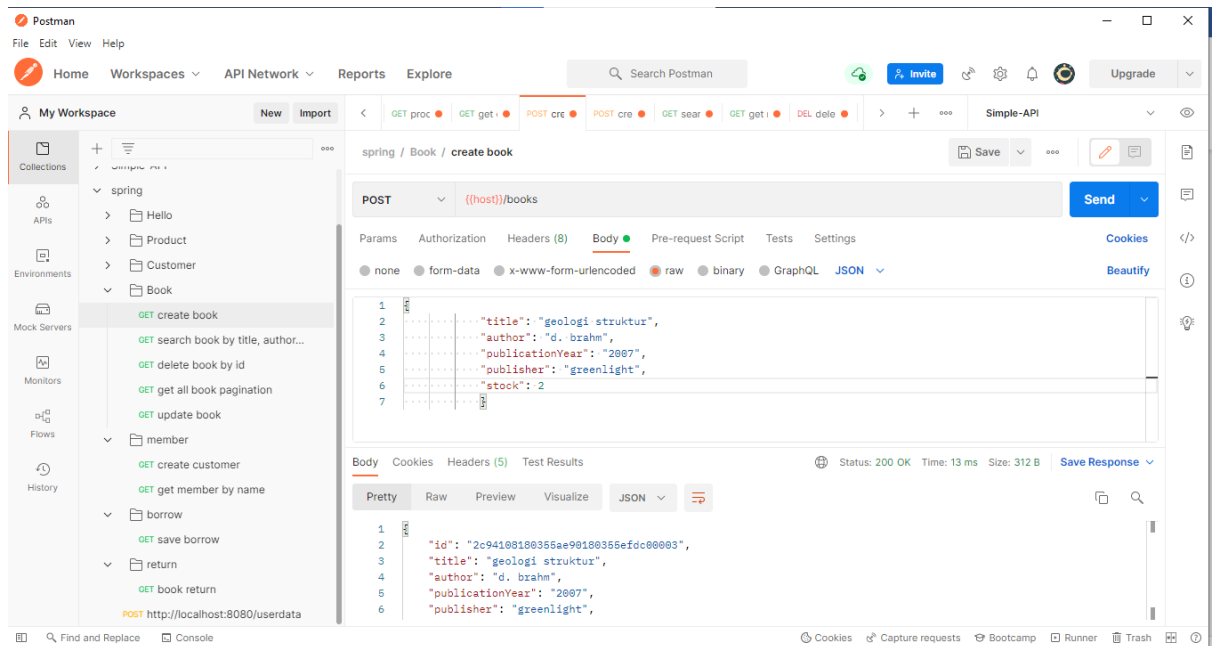
Pascal 8

Enigpus-boot

1. ERD dari aplikasi



2. Menambah Buku



3. Update Buku

Postman interface showing a REST client request for creating a book. The request is a POST to `((host))/books` with a JSON body:

```
{  "id": "2c94108180355ae90180355efdc00003",  "title": "sedimentasi dan stratigrafi",  "author": "d. brahm",  "publicationYear": "2007",  "publisher": "greenlight",  "stock": 4}
```

The response status is 200 OK. Below the Postman interface, a PostgreSQL 14.2 database view is shown, displaying data from the `mst_book` and `trx_borrow` tables. The data is organized into columns: `book_id`, `author`, `publication_year`, `publisher`, `stock`, and `title`.

| book_id | author | publication_year | publisher | stock | title |
|-----------------------------------|-----------|------------------|--------------------|-------|----------------------------------|
| 2c94108180331b8c0180331be1cb0000 | demian | 2010 | cipta karya | 10 | buku sulap |
| 2c94108180355ae90180355b1ea40000 | j. sastro | 2005 | sophie novelindo | 10 | kalam tuhan |
| 2c94108180355ae90180355c6abd0001 | selly a. | 2008 | trakoma enterprise | 10 | jalan yang kau tempuh |
| 2c94108180355ae90180355dc4d4c0002 | dicky p. | 2019 | enigmamatch | 3 | mahir full stack developer se... |
| 2c94108180355ae90180355efdc00003 | d. brahm | 2007 | greenlight | 4 | sedimentasi dan stratigrafi |

4. Delete Buku

PostgreSQL 14.2, compiled by Visual C++ build 1914, 64-bit : user : enigpus--

| mst_book | | | | trx_borrow | |
|----------------------------------|-----------|------------------|--------------------|------------|----------------------------------|
| book_id | author | publication_year | publisher | stock | title |
| 2c94108180331b8c0180331be1cb0000 | demian | 2010 | cipta karya | 10 | buku sulap |
| 2c94108180355ae90180355b1ea40000 | j. sastro | 2005 | sophie novelindo | 10 | kalam tuhan |
| 2c94108180355ae90180355c6abd0001 | selly a. | 2008 | trakoma enterprise | 10 | jalan yang kau tempuh |
| 2c94108180355ae90180355dc4c0002 | dicky p. | 2019 | enigmamatch | 3 | mahir full stack developer se... |
| 2c94108180355ae90180355efdc00003 | d. brahm | 2007 | greenlight | 4 | sedimentasi dan stratigrafi |

1 of 5 rows selected

Postman

File Edit View Help

Home Workspaces API Network Reports Explore

My Workspace

spring / Book / delete book by id

DELETE `{{host}}/books?id=2c94108180355ae90180355c6abd0001`

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

| KEY | VALUE | DESCRIPTION |
|--|----------------------------------|-------------|
| <input checked="" type="checkbox"/> id | 2c94108180355ae90180355c6abd0001 | |
| Key | Value | Description |

Body Cookies Headers (4) Test Results

Status: 200 OK Time: 82 ms Size: 123 B Save Response

1

| book_id | author | publication_year | publisher | stock | title |
|-----------------------------------|-----------|------------------|------------------|-------|----------------------------------|
| 2c94108180331b8c0180331be1cb0000 | demian | 2010 | ciptanya | 10 | buku sulap |
| 2c941081803355ae90180355b1ea40000 | j. sastro | 2005 | sophie novelindo | 10 | kalam tuhan |
| 2c941081803355ae90180355dc4c0002 | dicky p. | 2019 | enigmamatch | 3 | mahir full stack developer se... |
| 2c941081803355ae90180355efdc00003 | d. brahm | 2007 | greenlight | 4 | sedimentasi dan stratigrafi |

5. Search Buku Tanpa Parameter

spring / Book / search book by title, author, and publisher

GET `{{host}}/books`

Params Authorization Headers (8) Body Pre-request Script Tests Settings

Body

```

1 1
2 2
3 3
4 4
5 5

```

Status: 200 OK Time: 23 ms Size: 940 B

Body Cookies Headers (5) Test Results

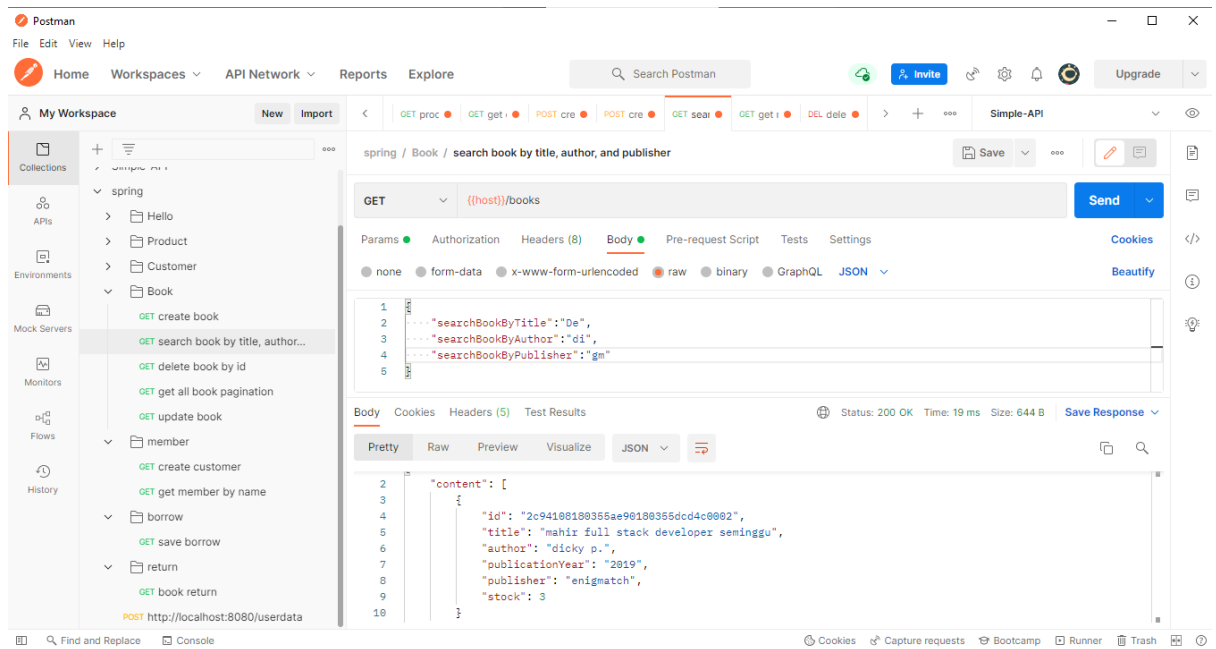
Pretty Raw Preview Visualize

```

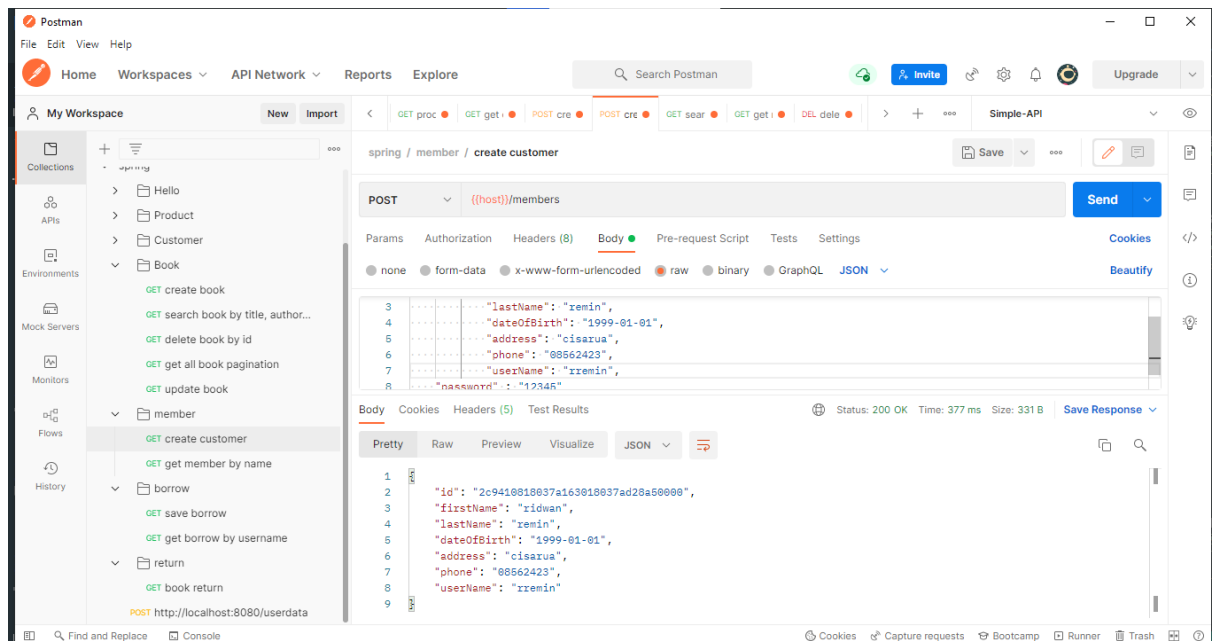
{
  "content": [
    {
      "id": "2c94108180331b8c0180331be1cb0000",
      "title": "buku sulap",
      "author": "demian",
      "publicationYear": "2010",
      "publisher": "ciptanya",
      "stock": "10"
    },
    {
      "id": "2c941081803355ae90180355b1ea40000",
      "title": "kalam tuhan",
      "author": "j. sastro",
      "publicationYear": "2005",
      "publisher": "sophie novelindo",
      "stock": "10"
    },
    {
      "id": "2c941081803355ae90180355dc4c0002",
      "title": "mahir full stack developer seminggu",
      "author": "dicky p.",
      "publicationYear": "2019",
      "publisher": "enigmamatch",
      "stock": "3"
    },
    {
      "id": "2c941081803355ae90180355efdc00003",
      "title": "sedimentasi dan stratigrafi",
      "author": "d. brahm",
      "publicationYear": "2007",
      "publisher": "greenlight",
      "stock": "4"
    }
  ]
}

```

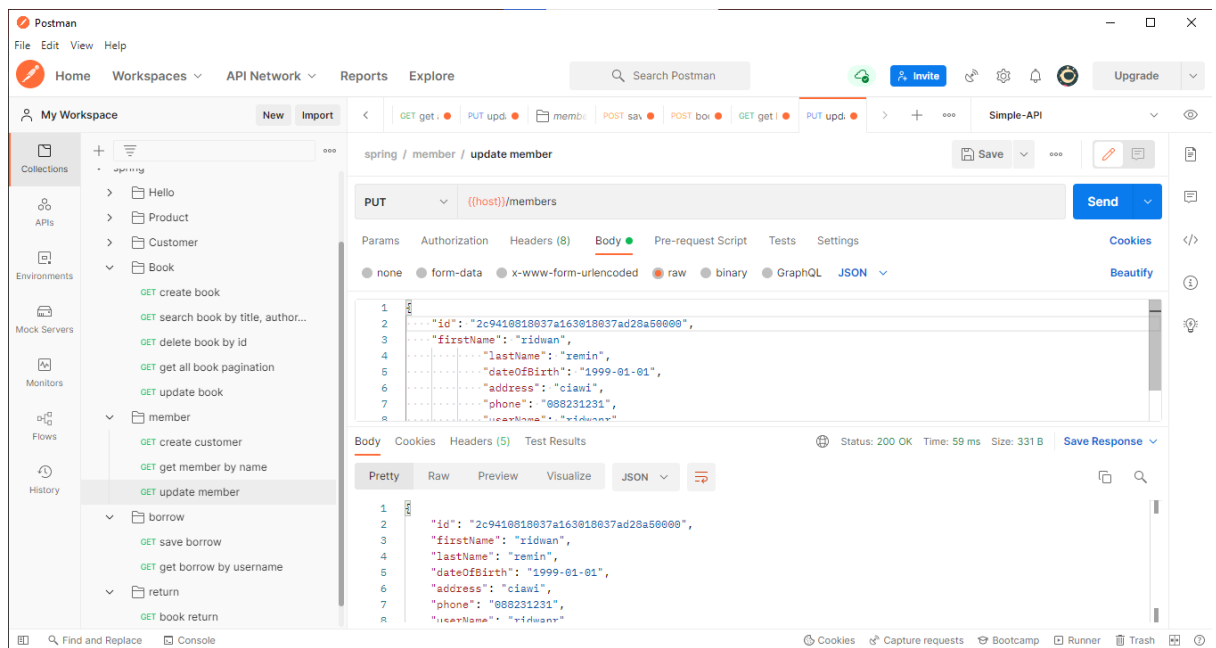
Dengan Parameter



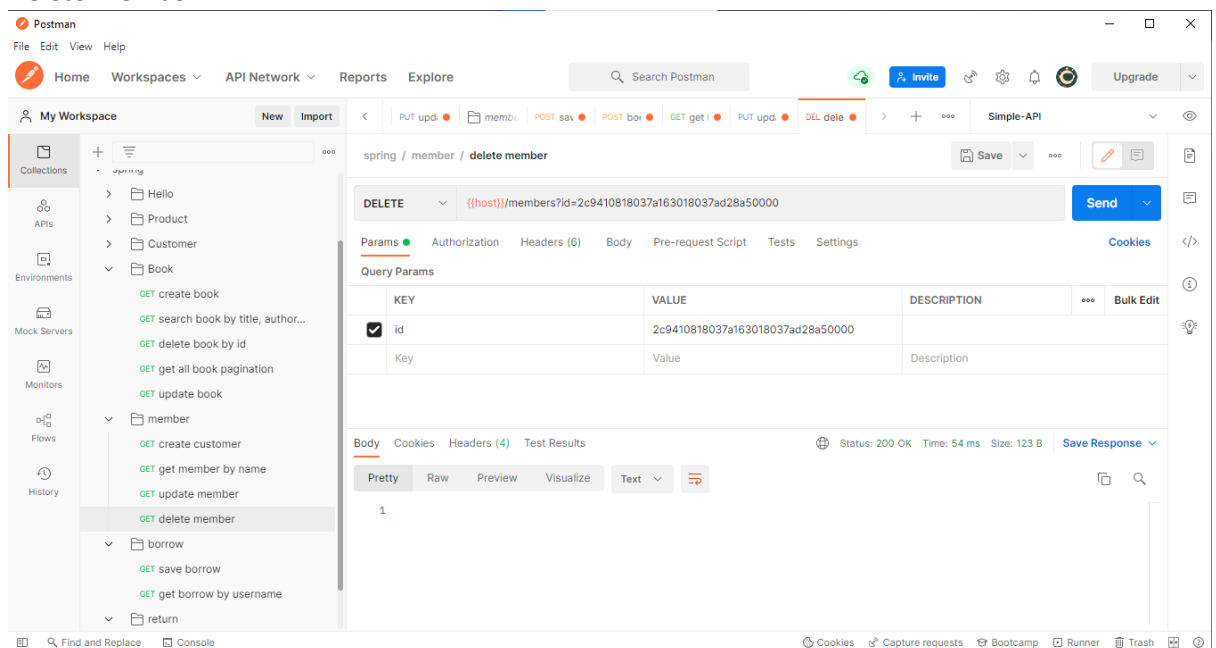
6. Create member



7. Update member



8. Delete Member



9. Meminjam buku

Postman

File Edit View Help

Home Workspaces API Network Reports Explore

Search Postman

My Workspace

spring / borrow / save borrow

POST `{{host}}/books/transaction?userName=dickyp&bookid=2c94108180331b8c0180331be1cb0000&borrowDate=2022-02-04`

Params Authorization Headers (8) Body Pre-request Script Tests Settings

Query Params

| KEY | VALUE | DESCRIPTION |
|--|----------------------------------|-------------|
| <input checked="" type="checkbox"/> userName | dickyp | |
| <input checked="" type="checkbox"/> bookId | 2c94108180331b8c0180331be1cb0000 | |
| <input checked="" type="checkbox"/> borrowDate | 2022-02-04 | |
| Key | Value | Description |

Body Cookies Headers (4) Test Results

Status: 200 OK Time: 74 ms Size: 123 B

Save Response

1

PostgreSQL 14.2, compiled by Visual C++ build 1914, 64-bit : user : enigusp...

Items Queries History

Search for item...

Functions

Tables

- mst_book
- mst_member
- return
- trx_borrow

public

mst_book

| borrow_id | borrow_date | status | book_id | member_id |
|----------------------------------|-----------------|----------|----------------------------------|----------------------------------|
| 2c9410818033479001803347cc890000 | 2022-04-16 0... | INACTIVE | 2c94108180331b8c0180331be1cb0000 | 2c94108180331b8c0180331ce5c10001 |
| 2c94108180365a840180369414230003 | 2022-02-02 0... | ACTIVE | 2c94108180355ae90180355efdc00003 | 2c941081803323a401803324c0890001 |

1 of 2 rows selected

Columns Filters

Search for column...

borrow_id varchar

2c94108180365a840180369414230003

borrow_date timestamp

2022-02-02 00:00:00

status varchar

ACTIVE

book_id varchar

2c94108180355ae90180355efdc00003

member_id varchar

2c941081803323a401803324c0890001

| mst_book | author | publication_year | publisher | stock | mst_member |
|----------------------------------|-----------|------------------|------------------|-------|----------------------------------|
| 2c94108180331b8c0180331be1cb0000 | demian | 2010 | cipta karya | 10 | buku sulap |
| 2c94108180355ae90180355b1ea40000 | j. sastro | 2005 | sophie novelindo | 10 | kalam tuhan |
| 2c94108180355ae90180355dc4c0002 | dicky p. | 2019 | enigmach | 3 | mahir full stack developer se... |
| 2c94108180355ae90180355efdc00003 | d. brahm | 2007 | greenlight | 3 | sedimentasi dan stratigrafi |

10. Search Borrow By UserName

spring / borrow / get borrow by username

GET `{{host}}/transaction?userName=dickyp`

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Query Params

| KEY | VALUE | DESCRIPTION |
|----------|--------|-------------|
| userName | dickyp | |

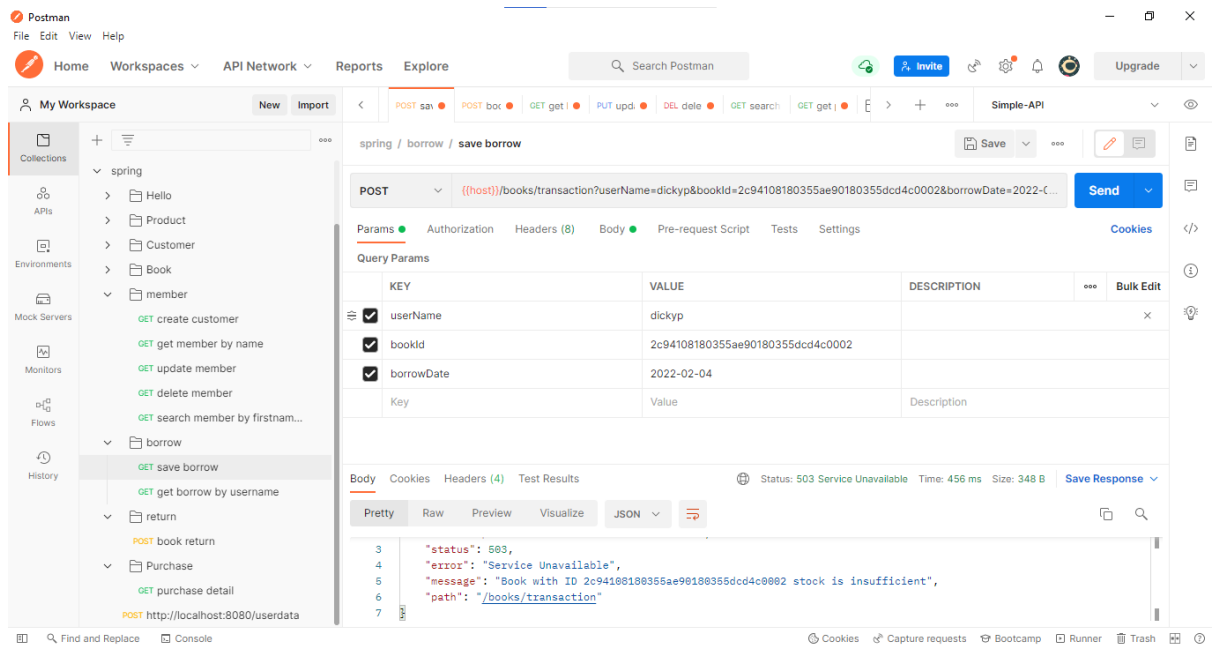
Body Cookies Headers (5) Test Results

Status: 200 OK Time: 21 ms Size: 593 B

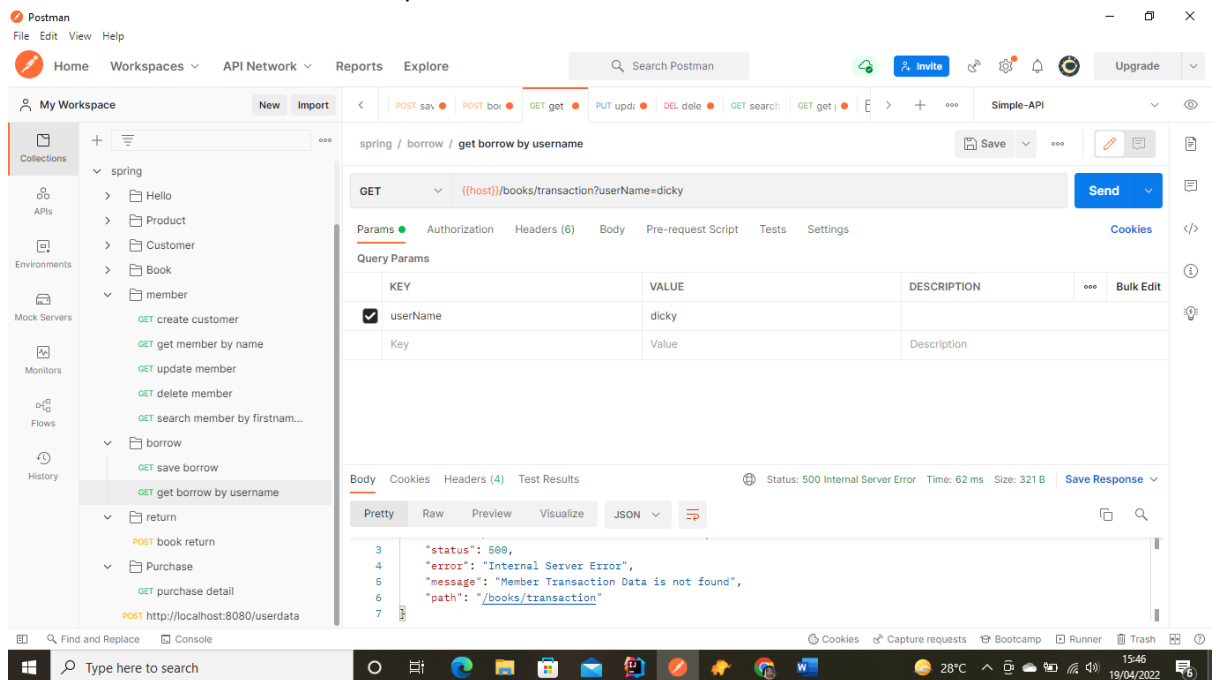
```

10  {
11    "address": "puwodadi",
12    "phone": "084334234",
13    "userName": "dickyp"
14  },
15  "book": {
16    "id": "2c94108180355ae90180355efdc00003",
17    "title": "sedimentasi dan stratigrafi",
18    "author": "d. brahm",
19    "publicationYear": "2007",
20    "publisher": "greenlight",
21    "stock": 3
22  }
  
```

11. Exception insufficient book stock



12. Data Transaction Not Found Exception



13. Return Book

PostgreSQL 14.2, compiled by Visual C++ build 1914, 64-bit : user : enigpus--

| mst_book | | | trx_borrow | | mst_member | |
|----------------------------------|-----------------|----------|----------------------------------|------------------------------------|------------|--|
| borrow_id | borrow_date | status | book_id | member_id | | |
| 2c9410818033479001803347cc890000 | 2022-04-16 0... | INACTIVE | 2c94108180331b8c0180331be1cb0000 | → 2c94108180331b8c0180331ce5c10001 | → | |
| 2c94108180365a840180369414230003 | 2022-02-02 0... | ACTIVE | 2c94108180355ae90180355efdc00003 | → 2c941081803323a401803324c0890001 | → | |

public | Data | Structure | + Row | 1-2 of 2 rows | Columns | Filters | < | >

Postman

File Edit View Help

Home Workspaces API Network Reports Explore

My Workspace

spring / return / book return

POST ((host))/back-transaction?borrowId=2c94108180365a840180369414230003&returnDate=2022-02-11

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

Query Params

| KEY | VALUE | DESCRIPTION |
|--|----------------------------------|-------------|
| <input checked="" type="checkbox"/> borrowId | 2c94108180365a840180369414230003 | |
| <input checked="" type="checkbox"/> returnDate | 2022-02-11 | |
| Key | Value | Description |

Body Cookies Headers (4) Test Results

Status: 200 OK Time: 36 ms Size: 123 B Save Response

1

PostgreSQL 14.2, compiled by Visual C++ build 1914, 64-bit : user : enigpus--

Items

Queries

History

Search for item...

Functions

Tables

mst_book

mst_member

return

trx_borrow

public

+

▼

mst_book

×

trx_borrow

×

mst_member

×

| borrow_id | borrow_date | status | book_id | member_id |
|----------------------------------|-----------------|----------|------------------------------------|------------------------------------|
| 2c9410818033479001803347cc890000 | 2022-04-16 0... | INACTIVE | 2c94108180331b8c0180331be1cb0000 → | 2c94108180331b8c0180331ce5c10001 → |
| 2c94108180365a840180369414230003 | 2022-02-02 0... | INACTIVE | 2c94108180355ae90180355efdc00003 → | 2c941081803323a401803324c0890001 → |

Data

Structure

+

Row

1 of 2 rows selected

Columns

Filters

<

⚙

>

Search for column...

borrow_id

varchar

2c94108180365a840180369414230003

borrow_date

timestamp

2022-02-02 00:00:00

▼

status

varchar

INACTIVE

▼

book_id

varchar

2c94108180355ae90180355efdc00003

member_id

varchar

2c941081803323a401803324c0890001