

Project Details

Task: F
Done by: Tan Wei Jie (A0202017B)
Repo Link: https://github.com/tanweijie123/CS3219_Sandbox/tree/main/Task_F
Backend Link: <http://tanwj.link:8081/api/book>

Project is based on Task B, but added busy waiting by 2 seconds during intial access.

Overview

When you first access the link, it will take a long time to process data. On the subsequent visit, the server will return the cached data, hence lowering the time required to return an answer.

Information:

- Retrival from database takes 2 second to process.
- Every cache has 30 seconds expiry.
- Access this [link](#) to flush cache.

Details

First Time Visiting

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

- Request:** GET `http://tanwj.link:8081/api/book`
- Response Status:** 200 OK
- Response Time:** 2.24 s
- Response Size:** 102 KB
- Response Body (JSON):**

```
{  "status": "success",  "message": "Book retrieved successfully, saving info to redis",  "data": [    {      "_id": "614c9eca6d5ed7b8b3d2f89",      "create_date": "2021-09-23T15:35:38.011Z",      "name": "nusmail.com",      "id": "e0415826@u.nus.edu",      "pw": "BestPassw0rd",      "__v": 0    }  ]}
```

During the first access, it takes 2.24s for a response.

Subsequent Visits

GET http://tanwj.link:8081/api/book

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

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (8) Test Results

Status: 200 OK Time: 28 ms Size: 1.01 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "status": "success",
3   "message": "Book retrieved successfully from redis",
4   "data": [
5     {
6       "_id": "614c9eca6d5ed7b8b83d2f89",
7       "create_date": "2021-09-23T15:35:38.011Z",
8       "name": "nusmail.com",
9       "id": "e0415826@u.nus.edu",
10      "pw": "BestPassw0rd",
11      "v": 0
12    }
13  ]
14 }
```

On subsequent accesses, it will take 28s for a response, until the cached information expires in 30 seconds.

After Cached Version is removed

GET http://tanwj.link:8081/api/book

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

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (8) Test Results

Status: 200 OK Time: 2.10 s Size: 1.02 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "status": "success",
3   "message": "Book retrieved successfully, saving info to redis",
4   "data": [
5     {
6       "_id": "614c9eca6d5ed7b8b83d2f89",
7       "create_date": "2021-09-23T15:35:38.011Z",
8       "name": "nusmail.com",
9       "id": "e0415826@u.nus.edu",
10      "pw": "BestPassw0rd",
11      "v": 0
12    }
13  ]
14 }
```

When the cache is removed (either after 30 seconds has past since first accessed, or **forced flush**), it will take 2.1s to perform retrieval again.