Project Details

Task: C
Done by: Tan Wei Jie (A0202017B)
Repo Link: https://github.com/tanweijie123/CS3219_Sandbox/tree/main/Task_C
Backend Link: http://tanwj.link:8082/api/general

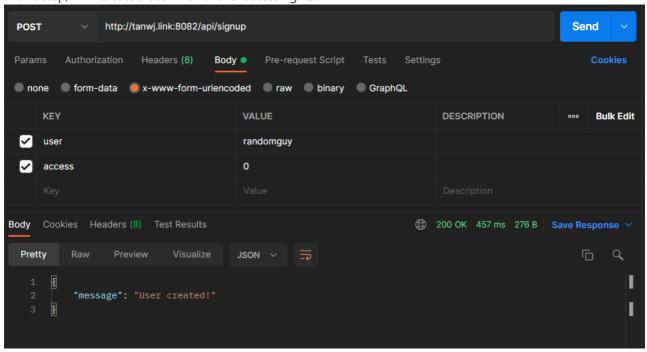*Project is based on Task B, but added authorization and authentication.*

Background Information

- Password Manager (`/api/book`) can only be accessed by User with 1 and higher priviledge.
- General Access (`/api/general`) can be accessed by any logged in users.
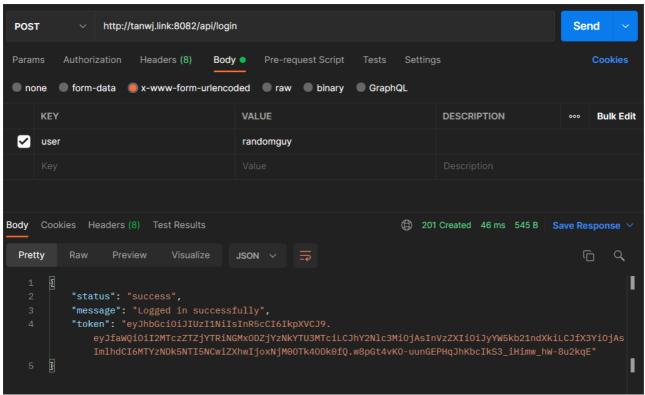- Sign up (`/api/signup`) and Log in (`/api/login`) can be accessed by any user.

Overview

1. When you accessed the restricted links, it will return a **Not authenticated!** reply.

2. In this step, I will create a user with 0-level access rights.

	KEY	VALUE	DESCRIPTION	000	Bulk Edit
☑	user	randomguy			
☑	access	0			
	Key	Value	Description		

POST | http://tanwj.link:8082/api/signup | Send

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

none | form-data | x-www-form-urlencoded | raw | binary | GraphQL

Body | Cookies | Headers (8) | Test Results | 200 OK | 457 ms | 276 B | Save Response ∨

Pretty | Raw | Preview | Visualize | JSON ∨

```
1  {
2      "message": "User created!"
3  }
```

3. By using this username, I will try to log in to the system. After logging into the system, it will return me with a token.

POST | http://tanwj.link:8082/api/login | Send

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

none | form-data | x-www-form-urlencoded | raw | binary | GraphQL

	KEY	VALUE	DESCRIPTION	000	Bulk Edit
☑	user	randomguy			
	Key	Value	Description		

Body | Cookies | Headers (8) | Test Results | 201 Created | 46 ms | 545 B | Save Response ∨

Pretty | Raw | Preview | Visualize | JSON ∨

```
1  {
2      "status": "success",
3      "message": "Logged in successfully",
4      "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
           eyJfaWQiOiI2MTczZTZjYTRiNGMxODZjYzNkYTU3MTciLCJhY2Nlc3MiOjAsInVzZXIiOiJyYW5kb21ndXkiLCJfX3YiOjAs
           ImlhdCI6MTYzNDk5NTI5NCwiZXhwIjoxNjM0OTk4ODk0fQ.w8pGt4vKO-uunGEPHqJhKbcIkS3_iHimw_hW-8u2kqE"
5  }
```

4. By using this token, I will try to access the General Access and Password Manager. Note that this account is unable to access the Password Manager due to insufficient access rights.

| GET | ∨ | http://tanwj.link:8082/api/general | ⇄ | | **Send** | ∨ |

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

Headers 👁 6 hidden

	KEY	VALUE	DESCRIPTIC ∘∘∘	**Bulk Edit**	**Presets** ∨
☑	x-access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.e...			
	Key	Value	Description		

Body Cookies Headers (8) Test Results 🌐 200 OK 120 ms 269 B **Save Response** ∨

Pretty Raw Preview Visualize HTML ∨ ⇄

```
1   Welcome all logged in peeps
```

| GET | ∨ | http://tanwj.link:8082/api/book | | | **Send** | ∨ |

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

Headers 👁 6 hidden

	KEY	VALUE	DESCRIPTIC ∘∘∘	**Bulk Edit**	**Presets** ∨
☑	x-access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.e...			
	Key	Value	Description		

Body Cookies Headers (8) Test Results 🌐 403 Forbidden 36 ms 275 B **Save Response** ∨

Pretty Raw Preview Visualize HTML ∨ ⇄

```
1   Insufficient Access Rights
```

5. In this step, I will create a superuser with 10-level access rights.

| POST | ∨ | http://tanwj.link:8082/api/signup | | | **Send** | ∨ |

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

⚪ none ⚪ form-data 🔘 x-www-form-urlencoded ⚪ raw ⚪ binary ⚪ GraphQL

	KEY	VALUE	DESCRIPTION ∘∘∘	**Bulk Edit**
☑	user	superuser		
☑	access	10		
	Key	Value	Description	

Body Cookies Headers (8) Test Results 🌐 200 OK 88 ms 276 B **Save Response** ∨

Pretty Raw Preview Visualize JSON ∨ ⇄

```
1   {
2       "message": "User created!"
3   }
```
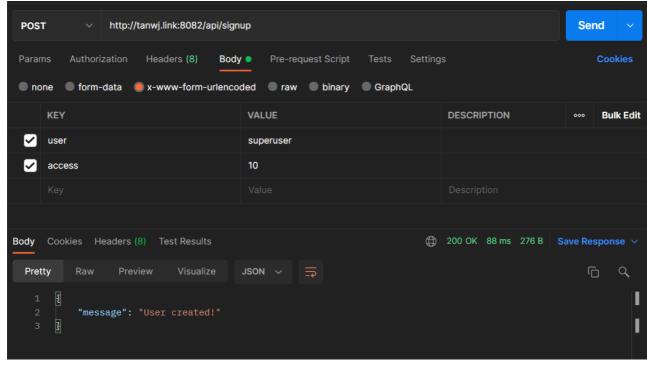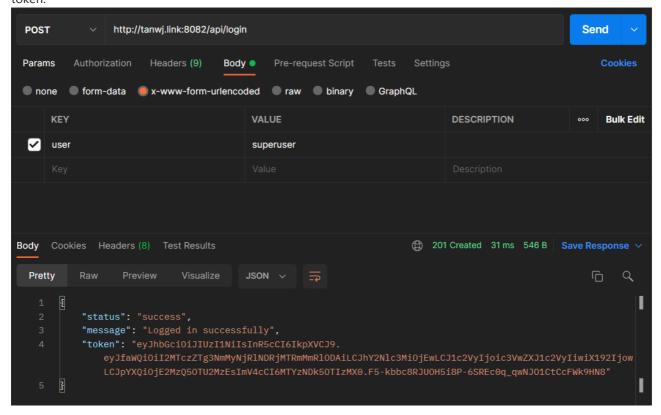
6. By using this username, I will try to log in to the system. After logging into the system, it will return me with a token.

7. By using this token, I will try to access the General Access and Password Manager. Note that this account will be able to access the Password Manager and General Acccess.

GET http://tanwj.link:8082/api/general

	KEY	VALUE	DESCRIPTIC
☑	x-access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.e...	
	Key	Value	Description

Body Cookies Headers (8) Test Results   200 OK   55 ms   269 B   Save Response

Pretty   Raw   Preview   Visualize   HTML

```
1  Welcome all logged in peeps
```

GET http://tanwj.link:8082/api/book

	KEY	VALUE	DESCRIPTIC
☑	x-access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.e...	
	Key	Value	Description

Body Cookies Headers (8) Test Results   200 OK   26 ms   873 B   Save Response

Pretty   Raw   Preview   Visualize   JSON

```
 1  {
 2      "status": "success",
 3      "message": "Book retrieved successfully",
 4      "data": [
 5          {
 6              "_id": "614ea21a1189c357d45b277a",
 7              "create_date": "2021-09-25T04:14:18.902Z",
 8              "name": "google.com",
 9              "id": "tanwj",
10              "pw": "GoodPassworD",
11              "__v": 0
```