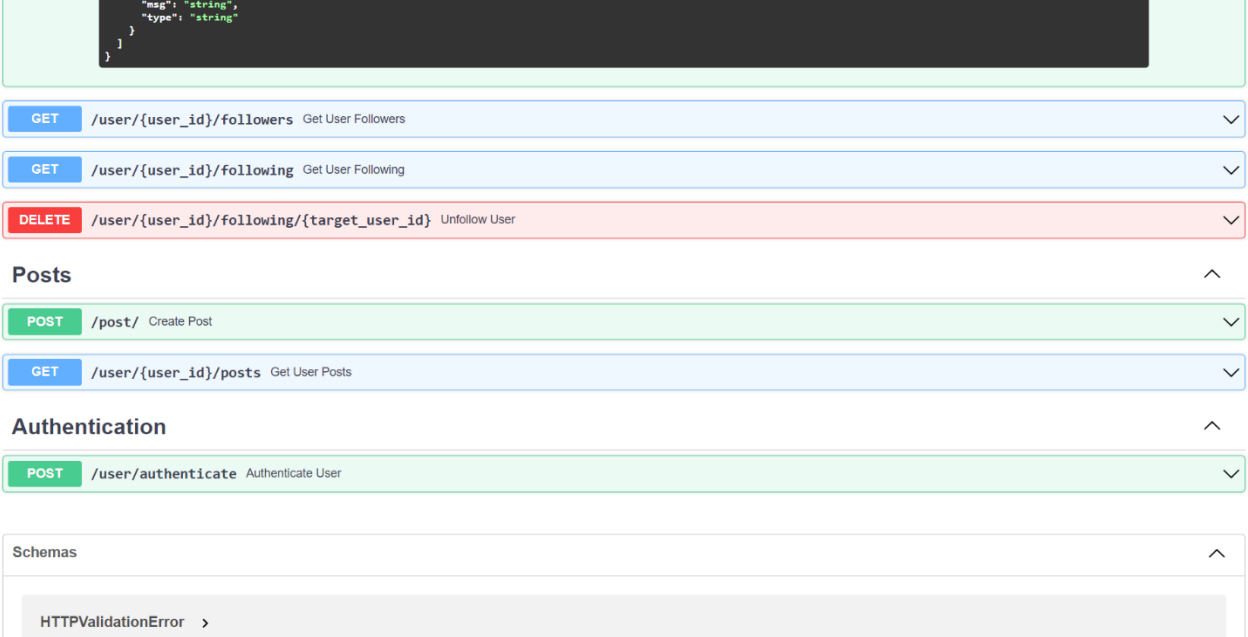


## Report on twitter redis

For this project I have created six endpoints.



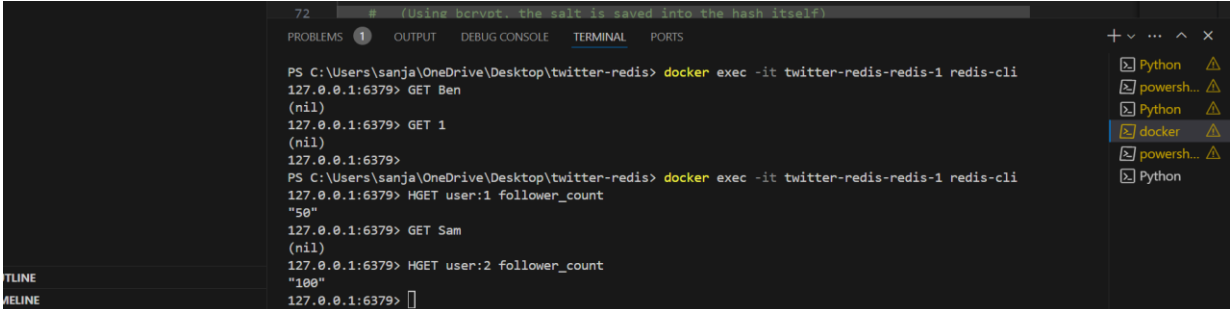
The image shows a Swagger UI for the Twitter Redis API. At the top, there is a JSON schema for a message: 

```
{  "msg": "string",  "type": "string"}
```

. Below this, there are six endpoints listed in a table-like structure:

- GET** `/user/{user_id}/followers` Get User Followers
- GET** `/user/{user_id}/following` Get User Following
- DELETE** `/user/{user_id}/following/{target_user_id}` Unfollow User
- Posts** (Section Header)
  - POST** `/post/` Create Post
  - GET** `/user/{user_id}/posts` Get User Posts
- Authentication** (Section Header)
  - POST** `/user/authenticate` Authenticate User
- Schemas** (Section Header)
  - `HTTPValidationError`

Get user following count:



The image shows a terminal window with the following commands and output:

```
PS C:\Users\sanja\OneDrive\Desktop\twitter-redis> docker exec -it twitter-redis-redis-1 redis-cli
127.0.0.1:6379> GET Ben
(nil)
127.0.0.1:6379> GET 1
(nil)
127.0.0.1:6379>
PS C:\Users\sanja\OneDrive\Desktop\twitter-redis> docker exec -it twitter-redis-redis-1 redis-cli
127.0.0.1:6379> HGET user:1 follower_count
"50"
127.0.0.1:6379> GET Sam
(nil)
127.0.0.1:6379> HGET user:2 follower_count
"100"
127.0.0.1:6379>
```

## Getting the post content:

localhost:8000/docs/#/Posts/create\_post\_post\_post

Parameters

Name	Description
user_id <span>required</span>	

integer (query)

1

Request body required

application/json

```
{  "content": "Hello"}
```

Execute Clear

```
138 if not user info:
127.0.0.1:6379> HGET user:2 follower_count
"100"
127.0.0.1:6379> HGET post:<post_id> content
(nil)
127.0.0.1:6379> HGET post:<1> content
(nil)
127.0.0.1:6379> HGET post:<1> content
(nil)
127.0.0.1:6379> HGET post:1 content
"Hello"
127.0.0.1:6379> HGET post:2 content
"Bonjour"
127.0.0.1:6379>
```

## Checking the user authentication:

localhost:8000/docs#/Users/create\_user\_user\_post

integer (query) 3

password \* required string (query) 234

Execute Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:8000/user/authenticate?user_id=3&password=234' \
  -H 'accept: application/json' \
  -d ''
```

Request URL

http://localhost:8000/user/authenticate?user\_id=3&password=234

Server response

Code	Details
200	<p>Response body</p> <pre>{   "message": "Authentication successful" }</pre> <p>Response headers</p>

Download

Curl

```
curl -X 'POST' \
  'http://localhost:8000/user/authenticate?user_id=1&password=123' \
  -H 'accept: application/json' \
  -d ''
```

Request URL

http://localhost:8000/user/authenticate?user\_id=1&password=123

Server response



















Code	Details
401 <small>Undocumented</small>	<p>Error: Unauthorized</p> <p>Response body</p> <pre>{   "detail": "Unauthorized" }</pre> <p>Response headers</p> <pre>content-length: 25 content-type: application/json date: Wed, 08 May 2024 20:16:20 GMT server: uvicorn</pre>

Responses

Code	Description	Links
200	Successful Response	No links

Media type  
application/json

## Redis Queries:

Clear Results			
LPUSH user:1:posts "Good day"	May 8, 23:52:35	1.296 msec	  
LRange user:1:posts 0 -1	May 8, 23:51:58	1.997 msec	  
ZRange user:2:followers 0 -1	May 8, 23:51:22	2.117 msec	  
ZADD user:2:followers 1 1	May 8, 23:47:43	3.424 msec	  
ZADD user:1:following 12	May 8, 23:47:43	3.881 msec	  
HGET user:1: follower_count	May 8, 23:45:16	3.27 msec	  

Databases > My Redis Stack Database db0 ⓘ

0.11 % 0 2 MB 11 5 Insights

All Key Types Filter by Key Name or Pattern 🔍 Bulk Actions + Key

Total: 9 1h ⌵ ⌵ ⌵

STRING	seq:post	No limit	56 B
HASH	post:1	No limit	128 B
HASH	post:2	No limit	128 B
LIST	user:2:posts	No limit	72 B
HASH	user:1	No limit	208 B
HASH	user:3	No limit	208 B
LIST	user:1:posts	No limit	80 B
HASH	user:2	No limit	208 B
STRING	seq:user	No limit	56 B

LIST user:1:posts

80 B Length: 2 TTL: No limit <1 min ⌵ ⌵ ⌵ ⌵ ⌵ ⌵

Index	Element
0	Good day
1	