

ST10084225 – VC
WESTVILLE

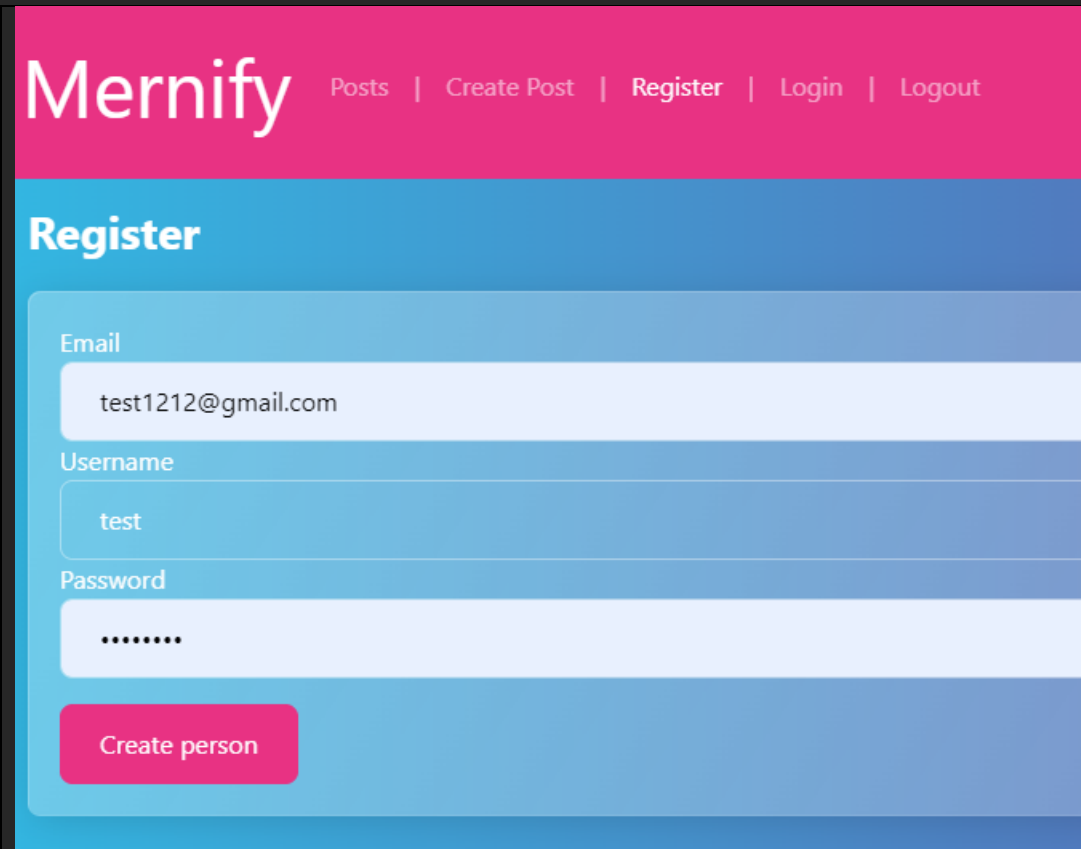
APDS7311 POE - Screenshots

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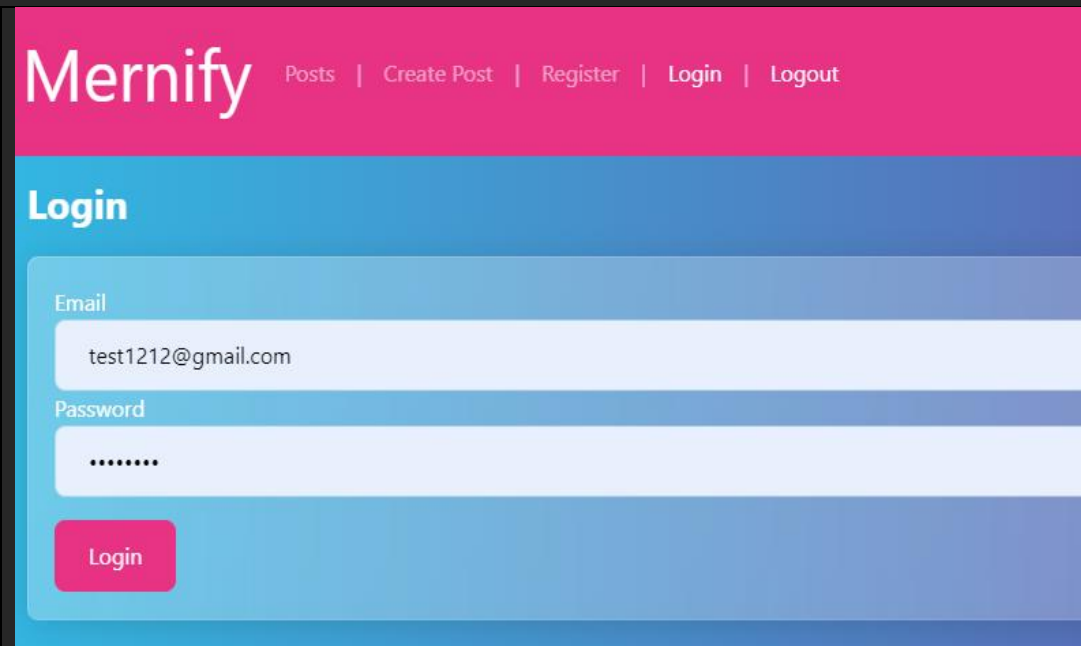
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Testing the Front-End of the website

Register a new user

	<p><Fig 1.1></p> <p>Note: Passwords are hashed then saved. Password for test user: test@123</p>
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Login to an existing account

	<p><Fig 1.2></p> <p>Note: The user has to login before proceeding to the posts page.</p>
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Get posts (While logged in)

The screenshot shows the Mernify application interface on the left and the browser's developer tools on the right. The application has a pink header with the Mernify logo and navigation links: Posts, Create Post, Register, Login, Logout. Below the header is a 'Posts List' section with a table of posts. The table has two columns: 'Caption' and 'Action'. The 'Action' column contains 'Edit' and 'Delete' buttons for each post. The posts listed are: 'dat bol be testing again 3', 'testing 23', 'The first test', 'Yet Another Test', 'Return of the Test', 'How does this work again?', 'Whats a JWT?', and 'I once was happy'. The browser's developer tools on the right show the 'Network' tab with a list of requests. The selected request is 'posts/' with a status of 200. The response is a JSON array of post objects.

Caption	Action
dat bol be testing again 3	Edit Delete
testing 23	Edit Delete
The first test	Edit Delete
Yet Another Test	Edit Delete
Return of the Test	Edit Delete
How does this work again?	Edit Delete
Whats a JWT?	Edit Delete
I once was happy	Edit Delete

<Fig 1.3>

Note: Testers can use the their browser's dev tools, or morgan in the terminal their running the back-end server from, to view the http requests being passed to the back-end, as well as their status codes.

Edit a post (While logged in)

The screenshot shows the Mernify application interface with the 'Edit Post' form. The form has a pink header with the Mernify logo and navigation links: Posts, Create Post, Register, Login, Logout. Below the header is a section titled 'Edit Post'. It contains a text input field for the 'Caption' with the value 'How does this work again?'. Below the input field is a pink 'Update post' button.

<Fig 1.4>

Note: You can edit a post by clicking the edit button in the row corresponding to that post.

The screenshot shows the Mernify application interface with the 'Edit Post' form. The form has a pink header with the Mernify logo and navigation links: Posts, Create Post, Register, Login, Logout. Below the header is a section titled 'Edit Post'. It contains a text input field for the 'Caption' with the value 'I got this :D'. Below the input field is a pink 'Update post' button.

<Fig 1.5>

Note: After you've made your changes, click the update post button to save your changes.

Get posts (After edit)

Mernify

[Posts](#) | [Create Post](#) | [Register](#) | [Login](#) | [Logout](#)

Posts List

Caption	Action
dat boi be testing again 3	Edit Delete
testing 23	Edit Delete
The first test	Edit Delete
Yet Another Test	Edit Delete
Return of the Test	Edit Delete
I got this :D	Edit Delete
Whats a JWT?	Edit Delete
I once was happy	Edit Delete

<Fig 1.7>

Create a new post (While logged in)

Mernify

[Posts](#) | [Create Post](#) | [Register](#) | [Login](#) | [Logout](#)

Create New Post

Caption

Do you ever look at the stars and just think, wow...

Create Post

<Fig 1.8>

Note:
After entering your caption, click the create post button to save your post.

Delete posts (While logged in)

Mernify		Posts	Create Post	Register	Login	Logout
Posts List						
Caption	Action					
dat boi be testing again 3				Edit	Delete	
testing 23				Edit	Delete	
The first test				Edit	Delete	
Yet Another Test				Edit	Delete	
Return of the Test				Edit	Delete	
I got this :D				Edit	Delete	
Whats a JWT?				Edit	Delete	
I once was happy				Edit	Delete	
Do you ever look at the stars and just think, wow....				Edit	Delete	

<Fig 1.10>
Note: You can delete a post by clicking the delete button in the row corresponding to that post.

Get posts (After delete)

Mernify		Posts	Create Post	Register	Login	Logout
Posts List						
Caption	Action					
dat boi be testing again 3				Edit	Delete	
testing 23				Edit	Delete	

<Fig 1.11>

Logout



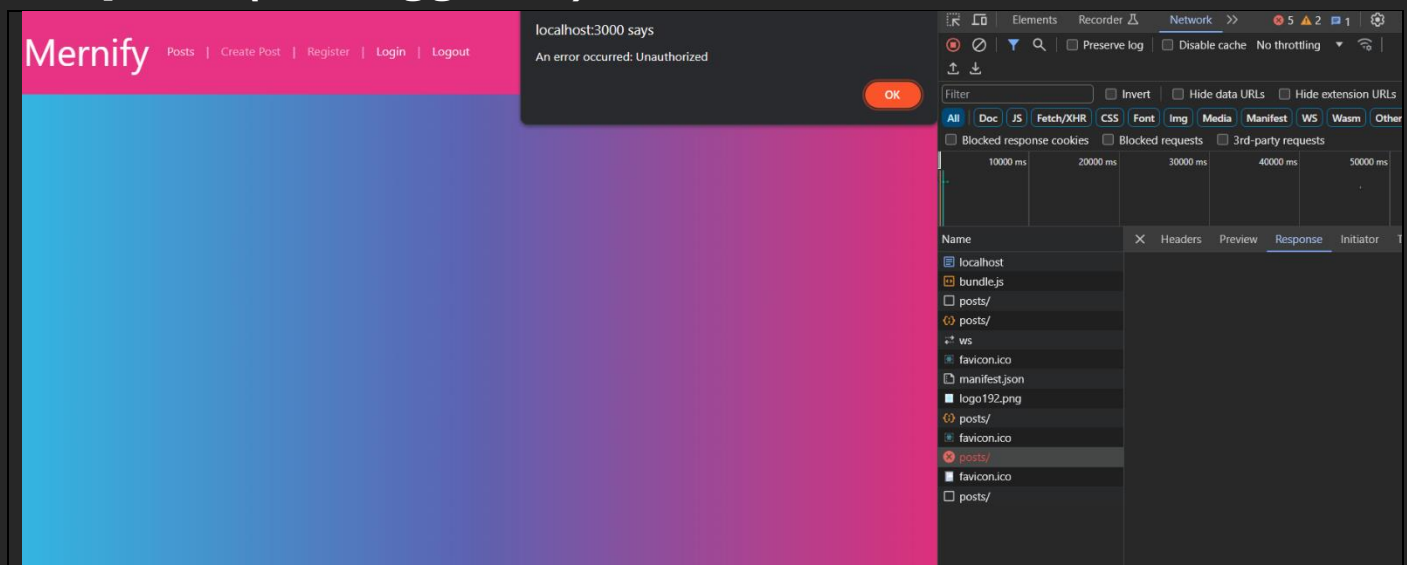
<Fig 1.12>

Note:

You can logout by clicking the logout tab on the navbar.

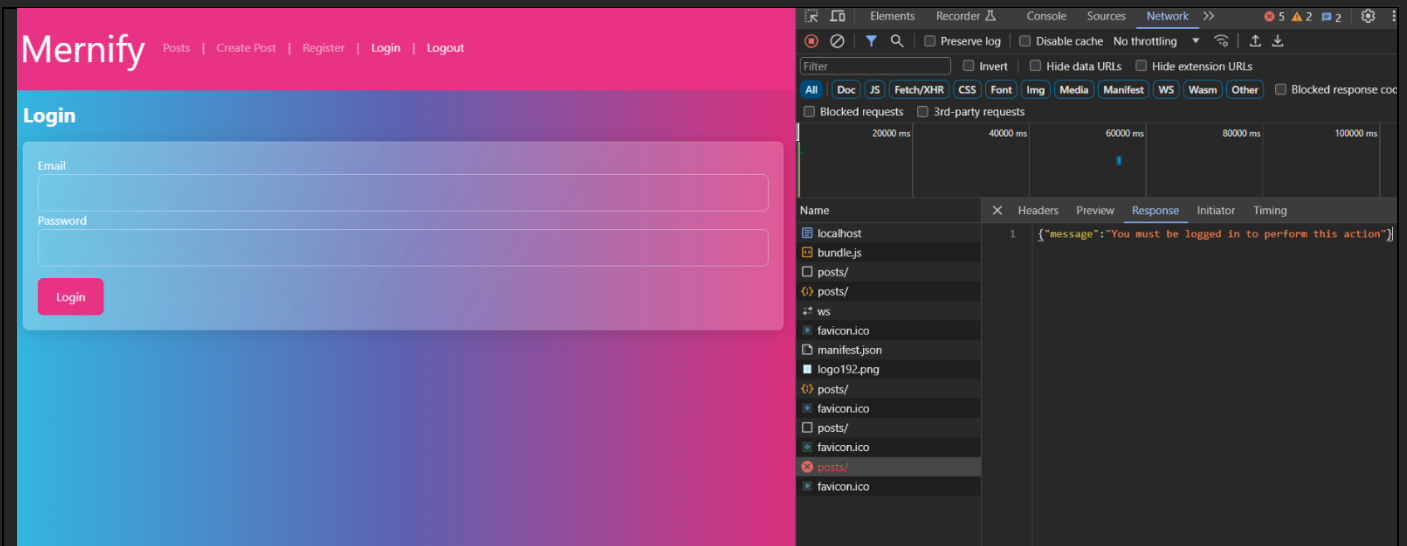
Testing security features

Get posts (Not logged in)



<Fig 2.1>

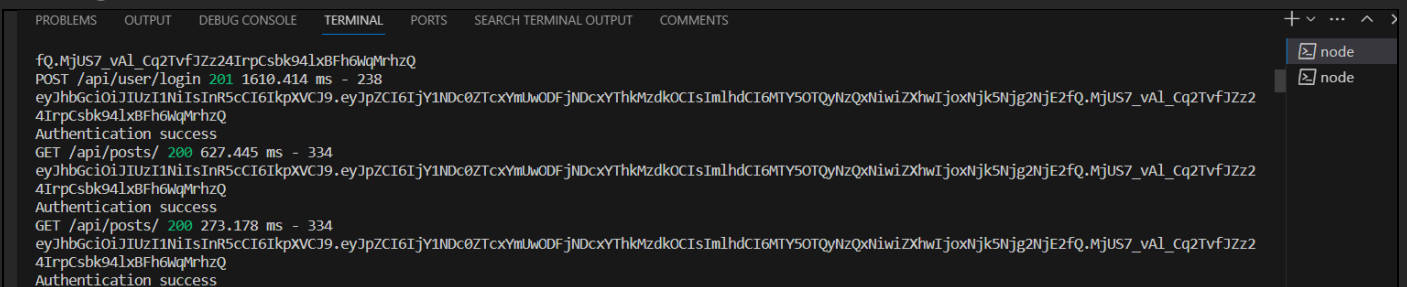
Note: The user is prompted that they are not authorized to view this page, they are then redirect to the login page.



<Fig 2.2>

Note: a json message is also passed back to the browser.

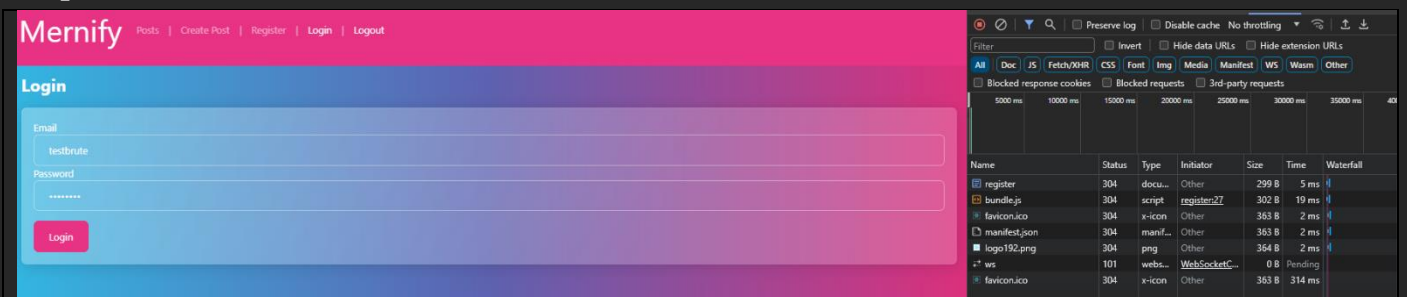
Morgan



<Fig 2.3>

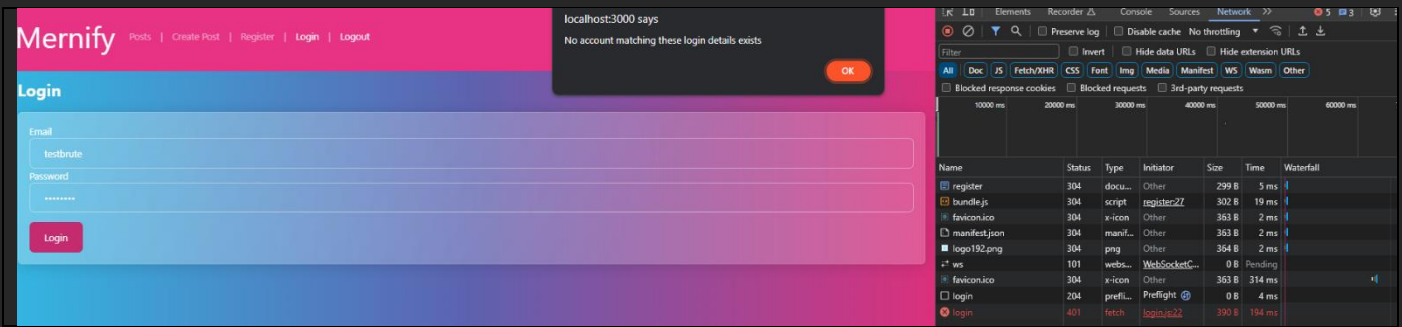
Note: Morgan will output the http requests and their status to the terminal the server is run from (Using the instructions from my readMe.md).

Express brute



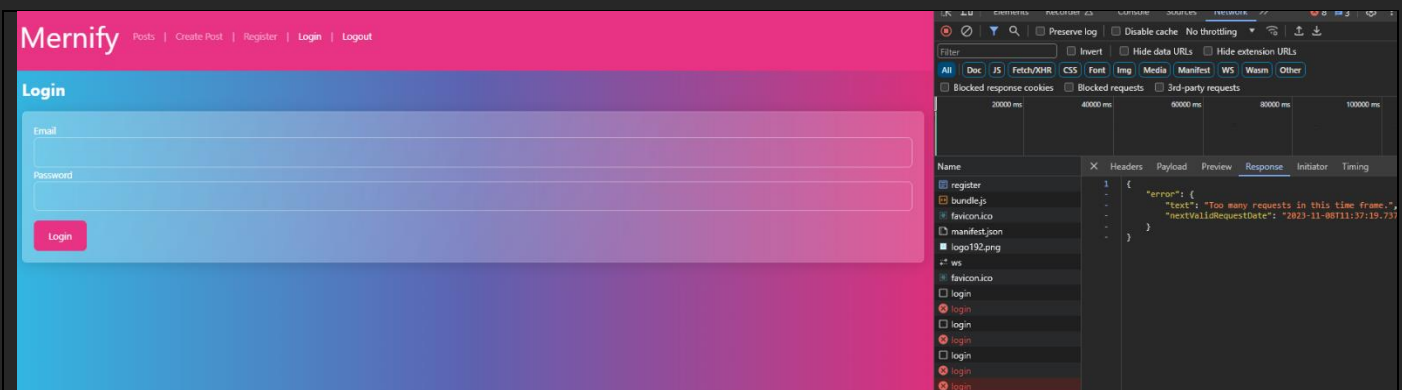
<Fig 2.4>

Note: To test express brute, we can try spamming our login page with bogus inputs and view the response messages from our back-end server



<Fig 2.5>

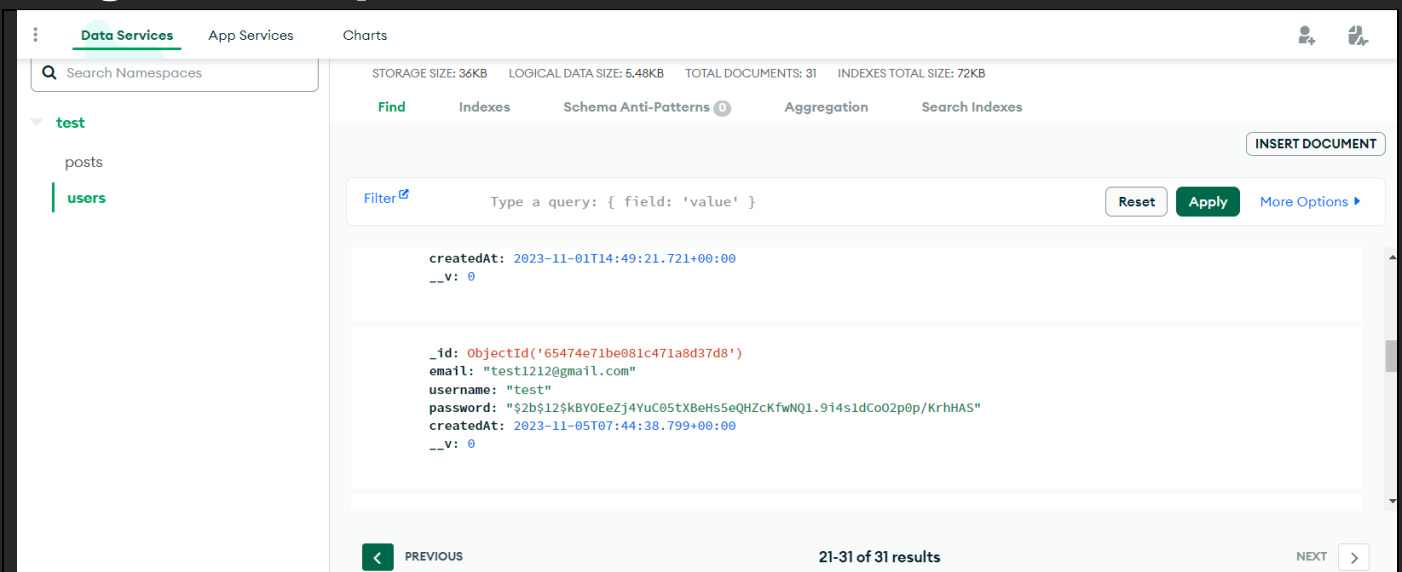
Note: The user can fail up to 3 times in 15 seconds before they are temporarily blocked



<Fig 2.6>

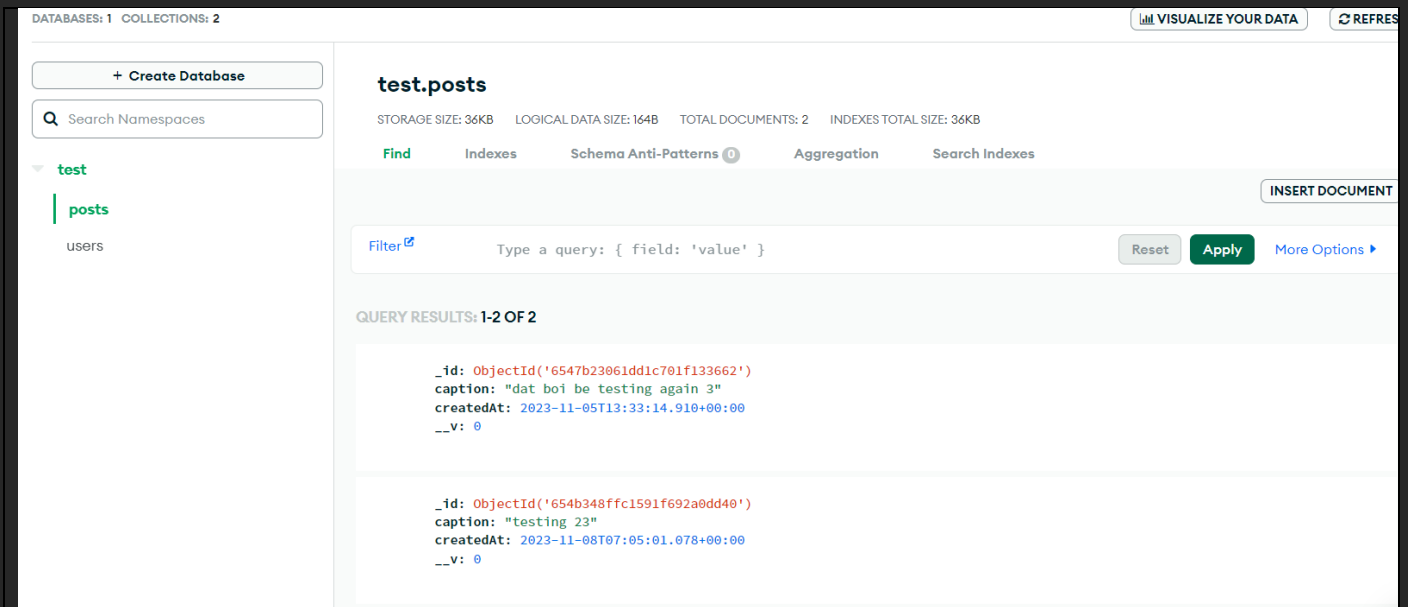
Note: On the 4th attempt the server blocked requests from the IP of this browser until a further time, which is stated in the response message from the server.

Mongo DB Setup



<Fig 2.6>

Note: The user's collection



<Fig 2.6>

Note: The post's collection

GitHub and Demo Video

You can find a brief demo video of me demonstrating my web app and it's functions on the GitHub repo for this project at:

https://github.com/ST10084225/APDS7311_POE.git

Code Attribution

- 1.) How to implement express-brute: <https://www.npmjs.com/package/express-brute> (Accessed: 29 October 2023).
- 2.) How to implement Morgan: <https://www.npmjs.com/package/morgan> (Accessed: 30 October 2023).