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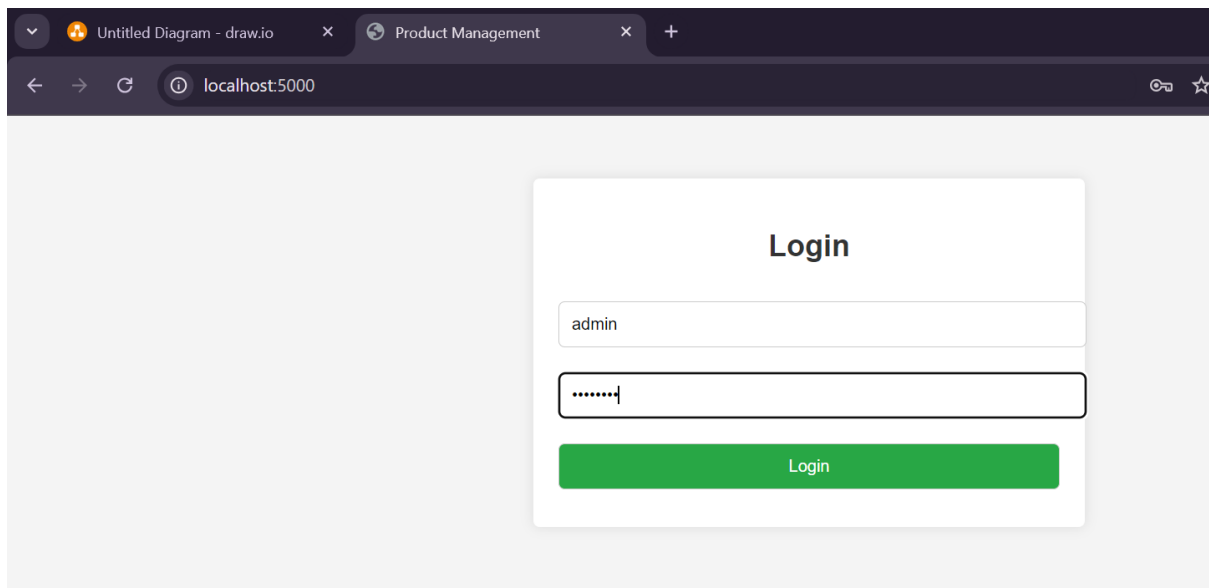
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User Permissions to simulate

User Type	Method name	Results	Restrictions
Admin	AddProduct	Product is saved successfully	1. Product name must be unique.
Non-Admin but Privileged User	AddProduct	Error message with relevant http status code	NIL
Privileged User	GetProducts	Product list	1. Show appropriate message if no products.
Anonymous user	GetProducts	Error message with relevant http status code	NIL
Privileged User	GetProduct(ProductId)	Product	1. Show appropriate message if not found.

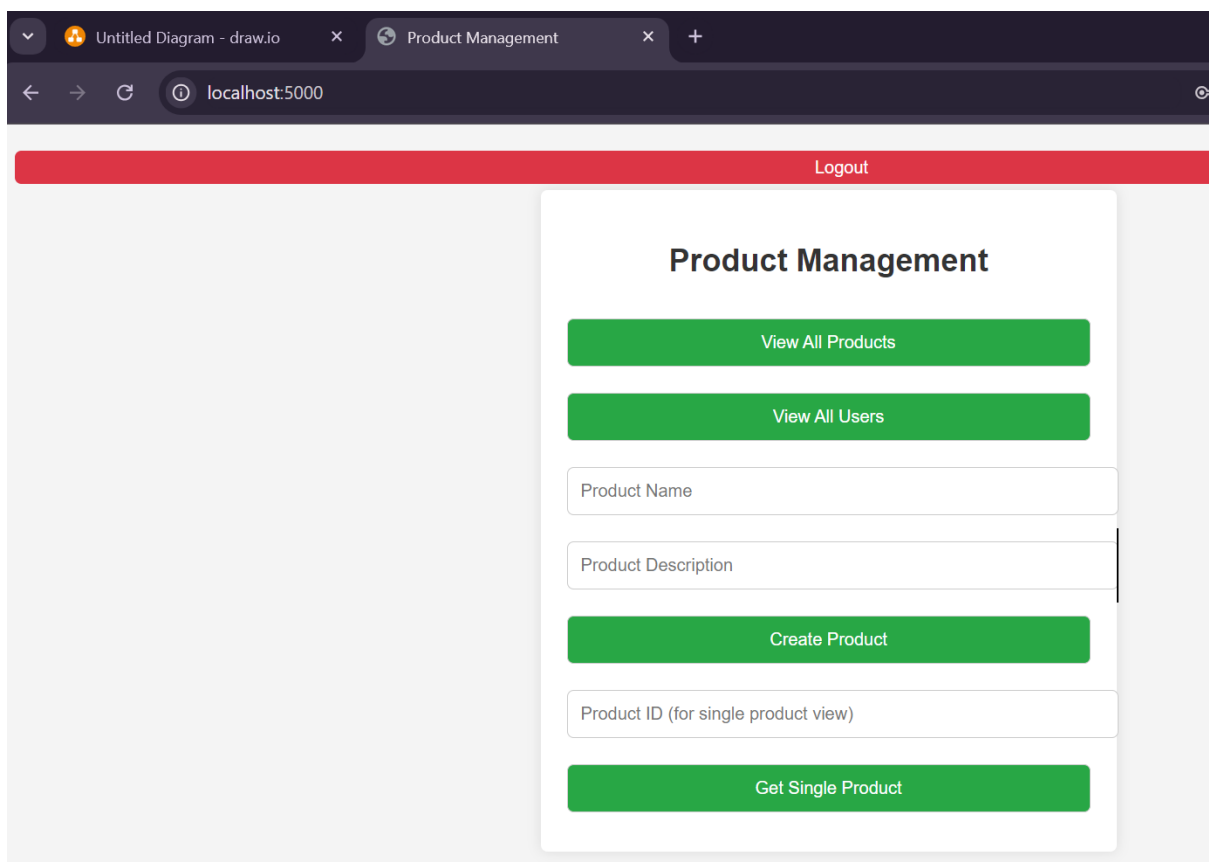
Begin

1. Login as Admin as admin is only user available
 - a. Username: admin
 - b. Password : password



The screenshot shows a web browser window with two tabs: 'Untitled Diagram - draw.io' and 'Product Management'. The address bar shows 'localhost:5000'. The main content area displays a 'Login' form. The form has a title 'Login' at the top. Below the title, there are two input fields: the first contains the text 'admin', and the second contains masked characters '.....'. Below these fields is a green button labeled 'Login'.

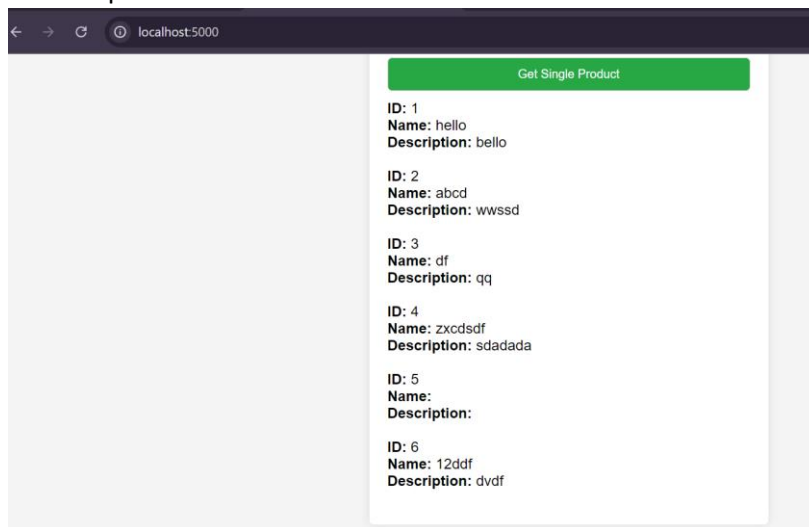
2. Front end after successful login



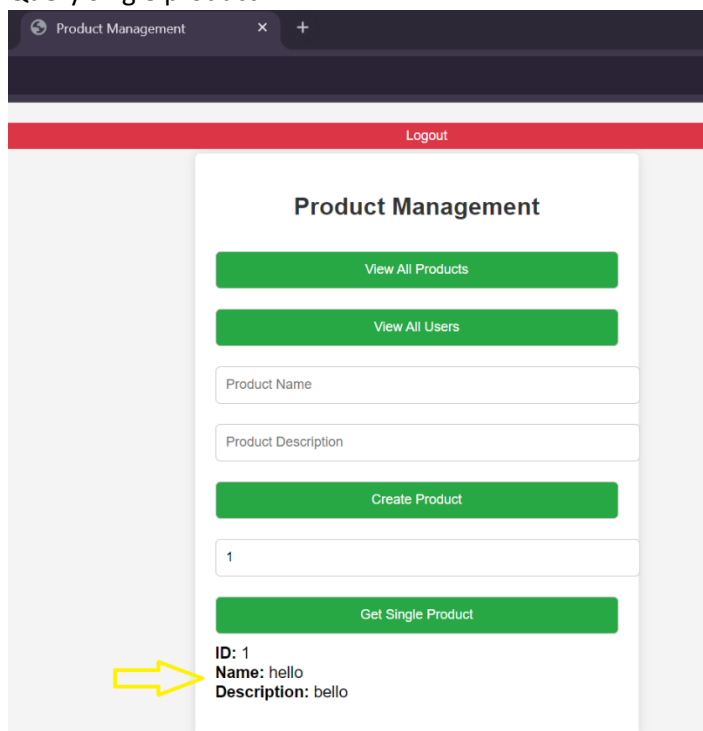
The screenshot shows the same web browser window after a successful login. A red header bar at the top contains a 'Logout' link. The main content area displays a 'Product Management' form. The form has a title 'Product Management' at the top. Below the title, there are four green buttons: 'View All Products', 'View All Users', 'Create Product', and 'Get Single Product'. Between the 'View All Users' and 'Create Product' buttons, there are two input fields: 'Product Name' and 'Product Description'. Below the 'Create Product' button, there is an input field labeled 'Product ID (for single product view)'.

Performing action as admin

1. View all products – **Admin is allowed**



2. Query single product



3. Create product

Logout

Product Management

View All Products

View All Users

Tom Yum Soup

Thai dish

Create Product

Product ID (for single product view)

Get Single Product

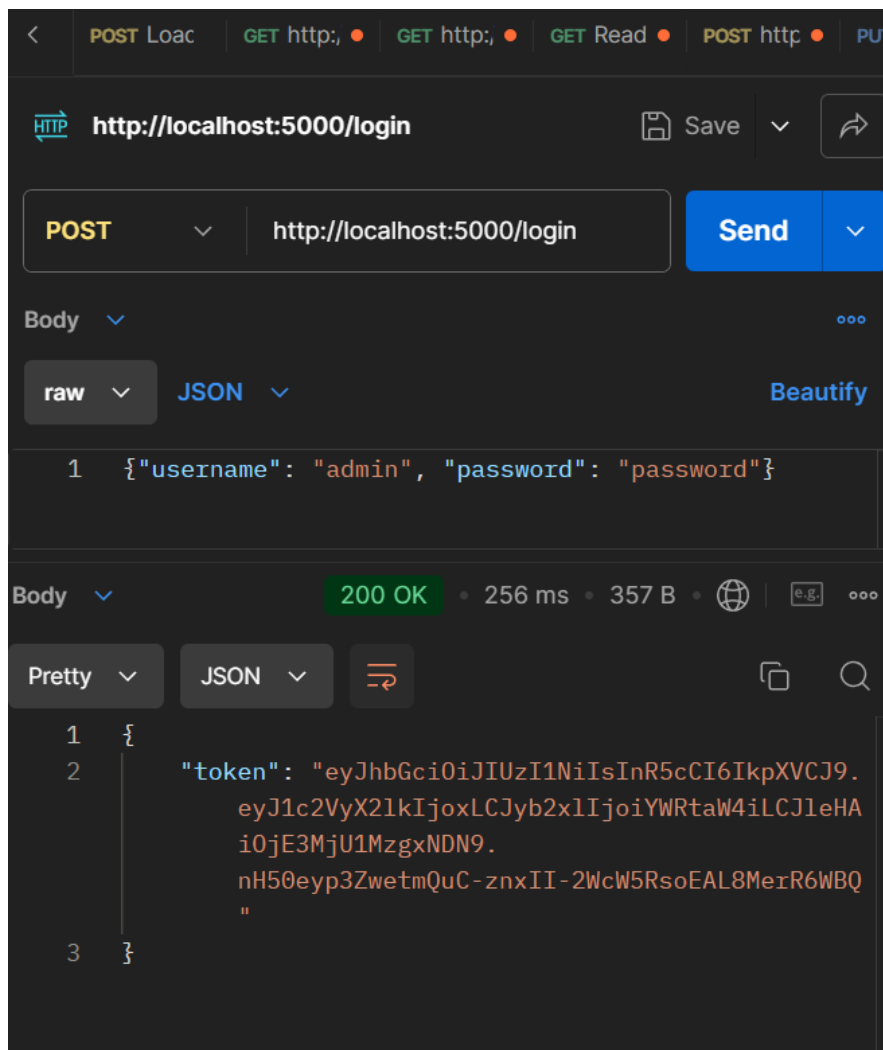
Product created successfully!

Creating another user with privilege

1. Only available through api call and to admin role

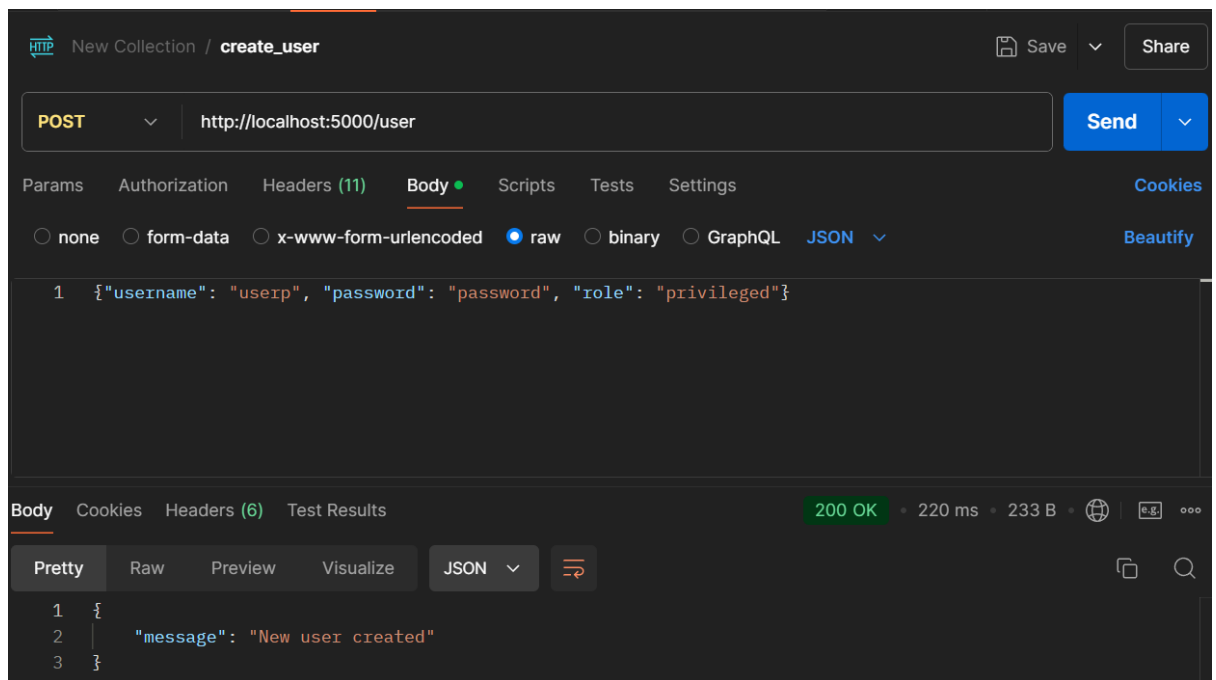
```
curl --location 'http://localhost:5000/login' \  
--header 'Content-Type: application/json' \  
--data '{"username": "admin", "password": "password"}'
```

2. Get Token (JWT)



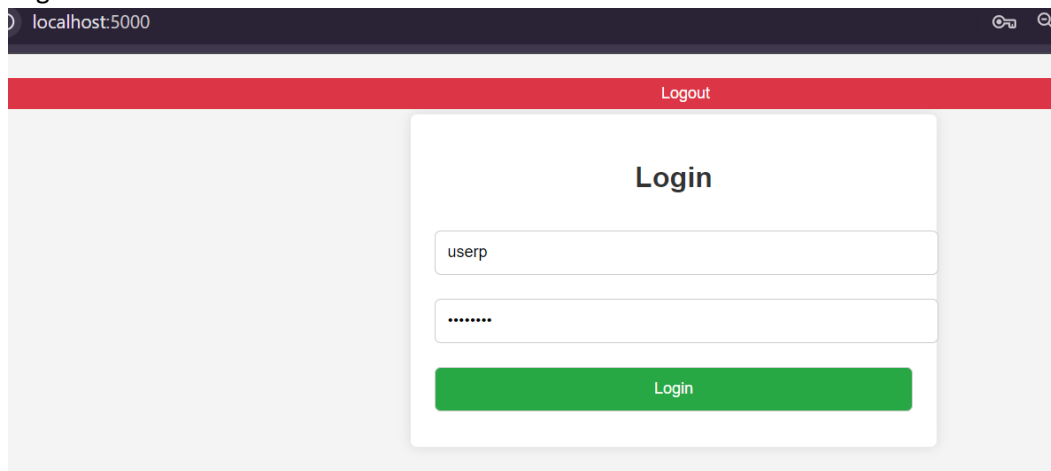
3. Use the token to make API calls

```
curl --location 'http://localhost:5000/user' \  
--header 'Content-Type: application/json' \  
--header 'x-access-token:  
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VyX2lkIjoxLCJyb2x1IjoieWVhY2IjOiE3MjU1Mzg5NDN9.nH50eyp3ZwetmQuC-znxII-2WcW5RsoEAL8MerR6WBQ' \  
--data '{"username": "userp", "password": "password",  
"role": "privileged"}'
```

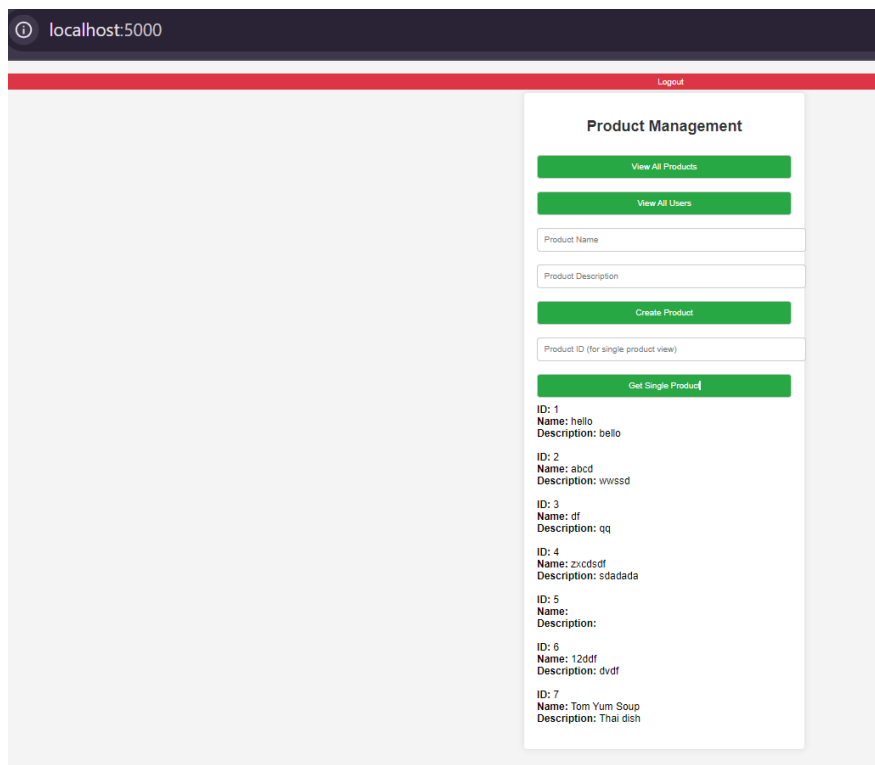


Interacting as privileged user

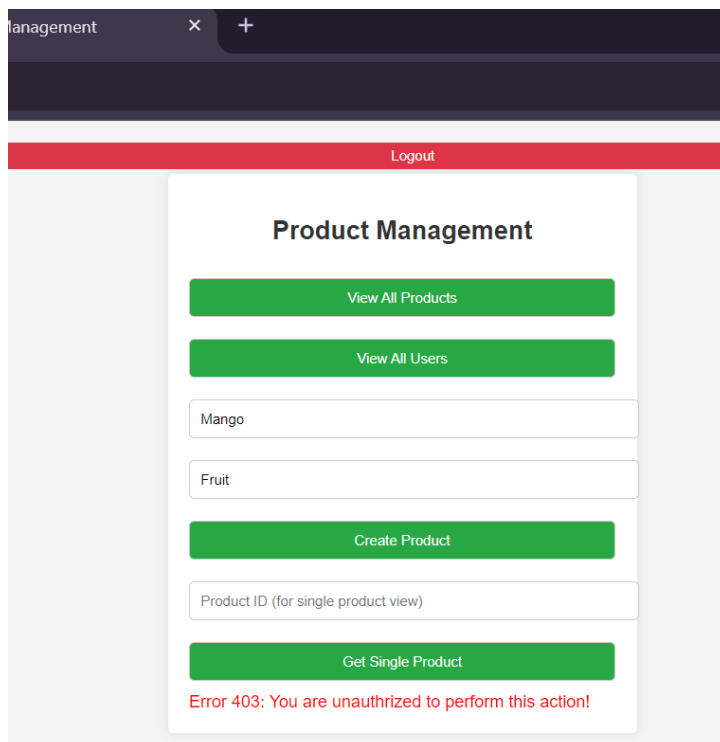
1. Login



2. View all products – Allowed to privileged users

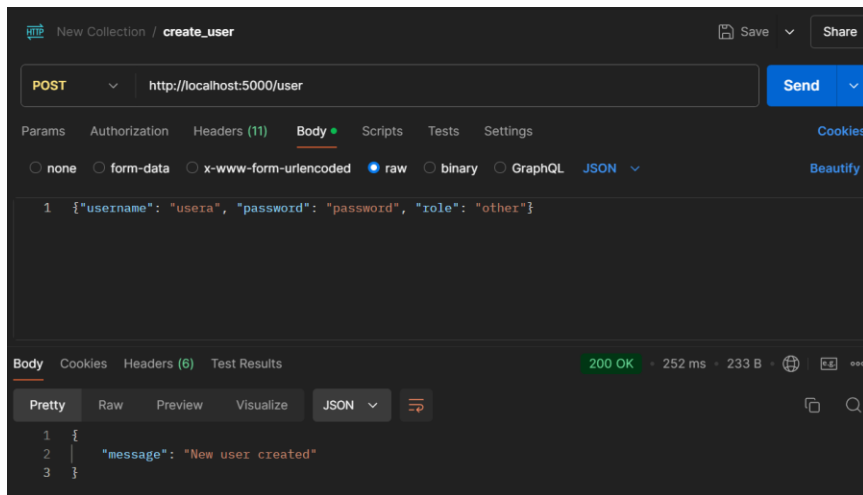


3. Create Product – Unauthorized

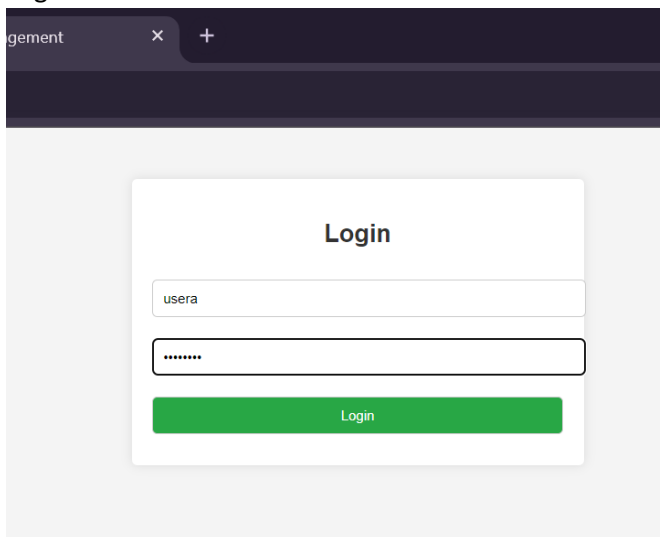


Interacting as anonymous user

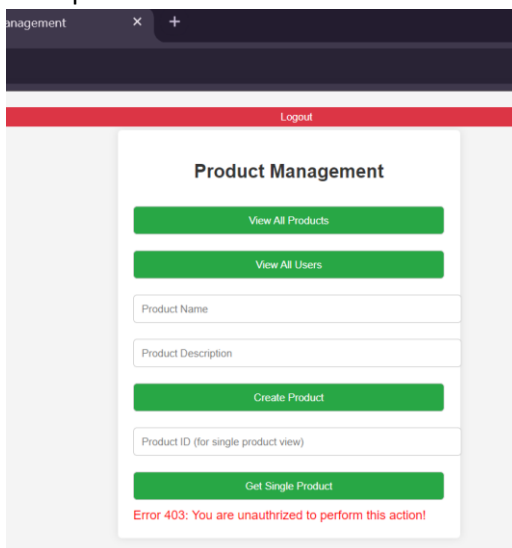
Note : Admin creates a user with other role



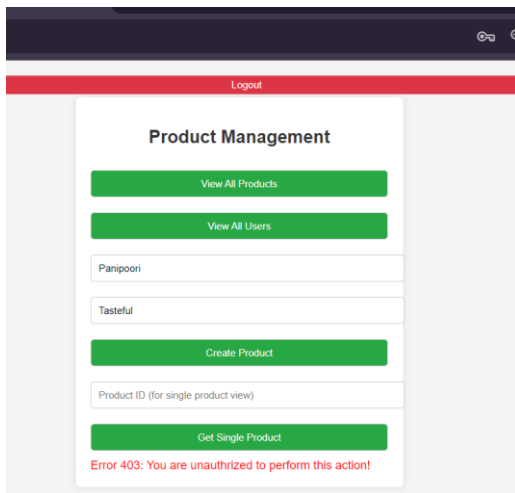
1. Login as anon user



2. View products – Unauthorized



3. Create product - Unauthorized



4. Query product

