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Module Name: APPLICATION DEVELOPMENT SECURIT

Module Code: APDS7311

POE

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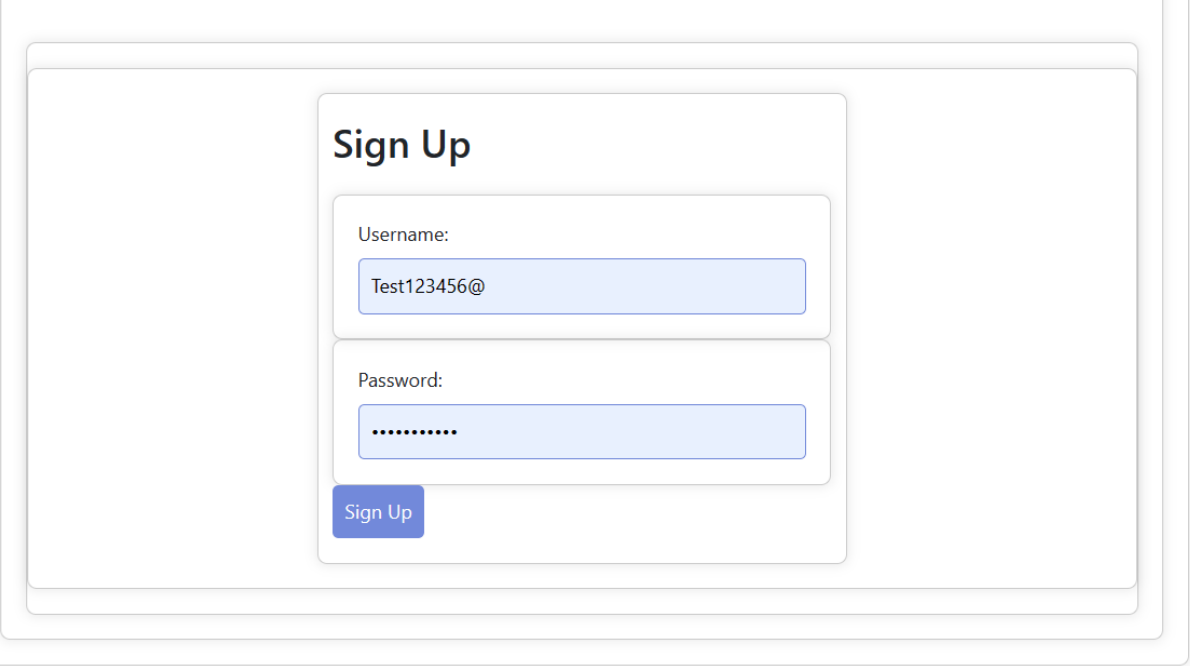
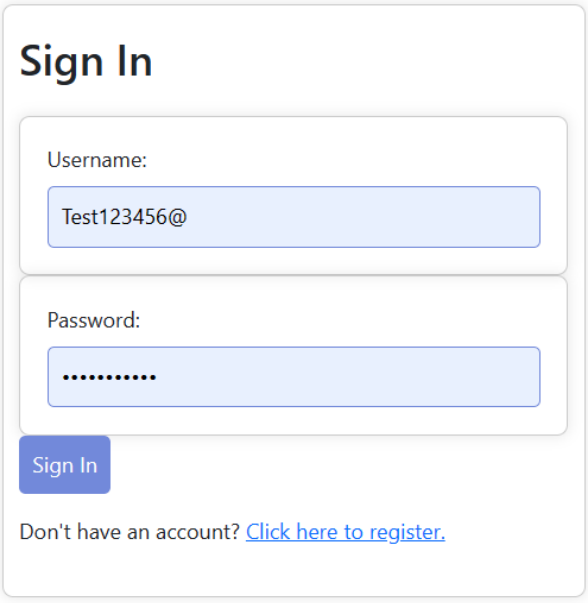
1) Register a new User

Showing register of new user

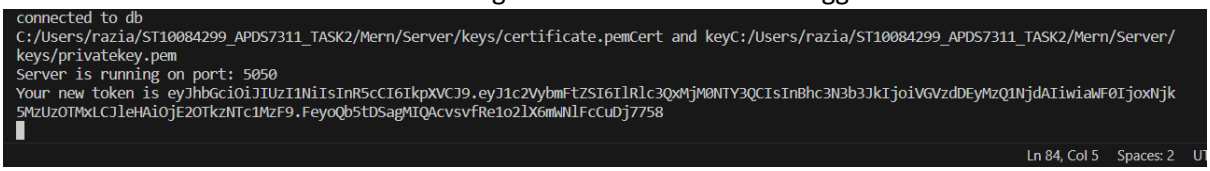


2) Login

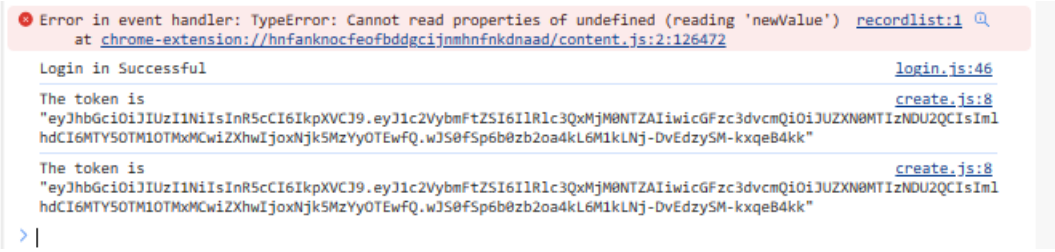
- Showing the login of a user



- This screenshot shows the session token generated when the user logged in.

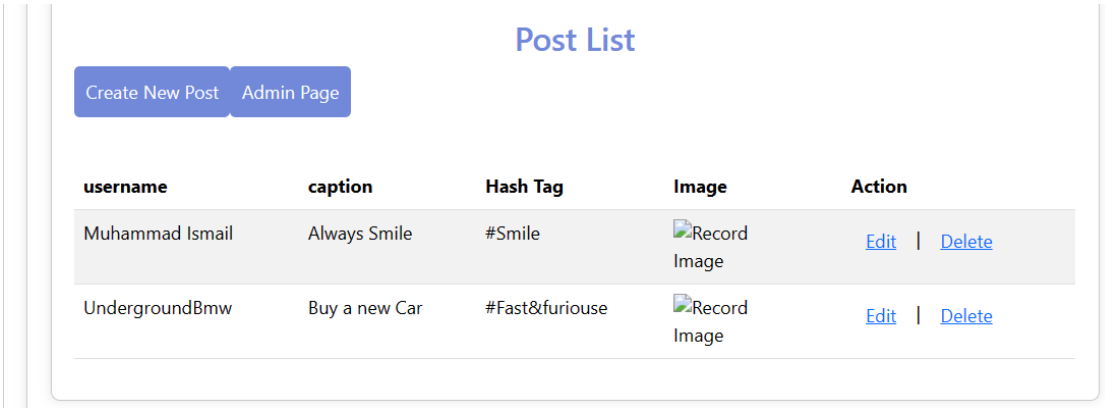


Console Log:



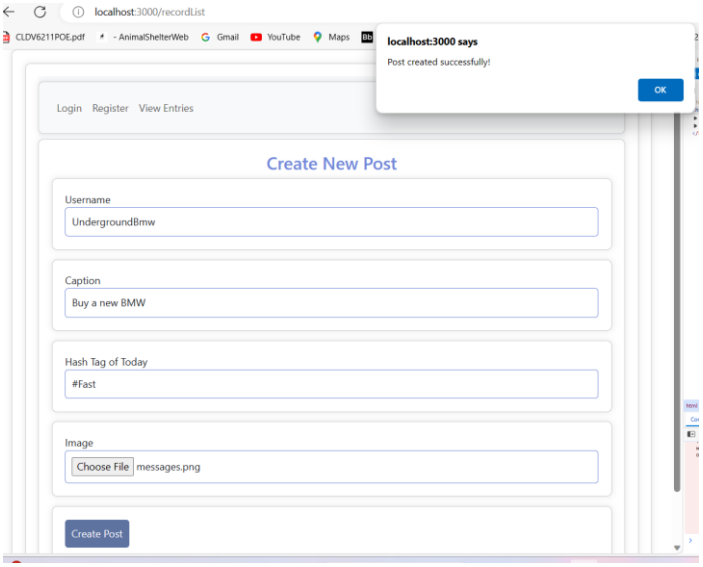
3) Get All Post

- This screenshot shows all posts.

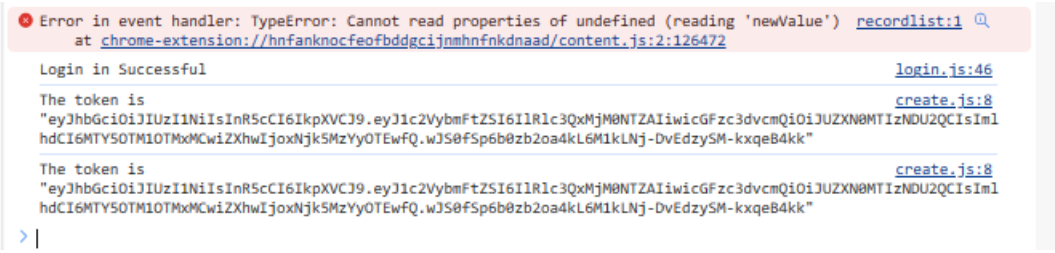


4) Create Post

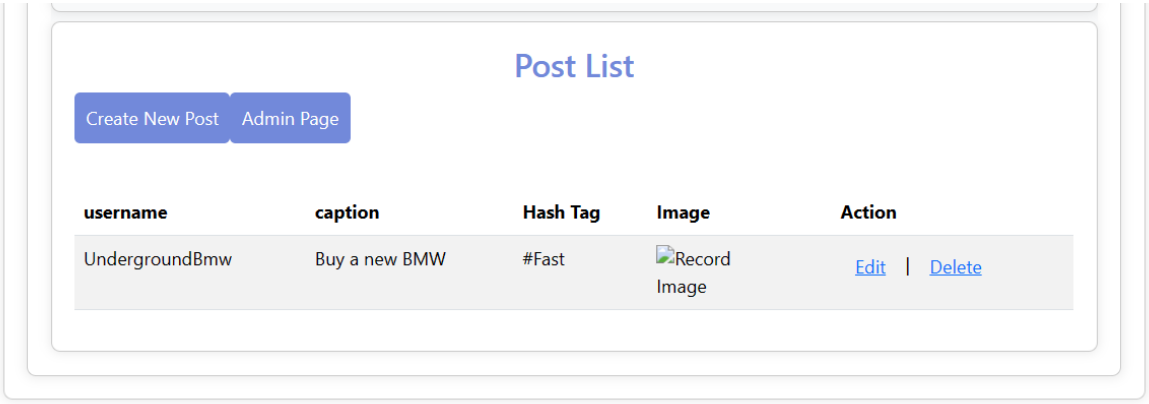
- This screenshot shows that the post was created successfully using validation.



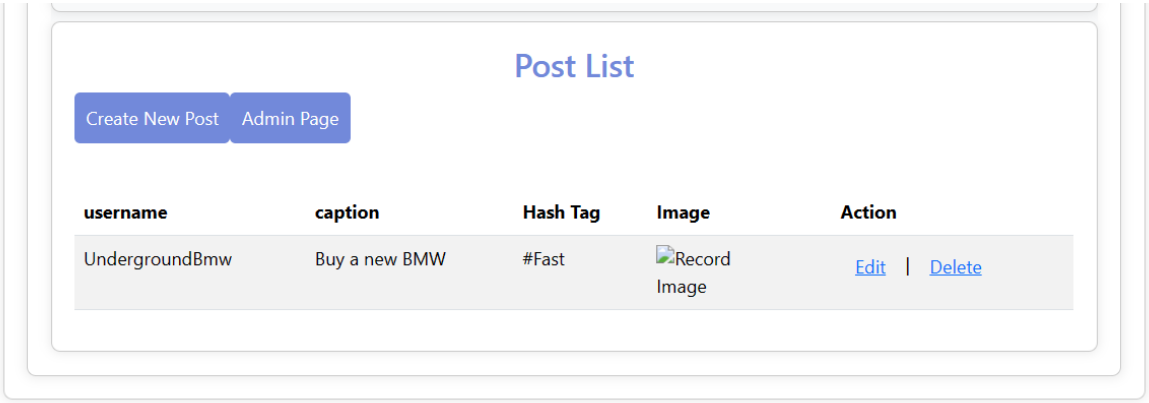
Console logs



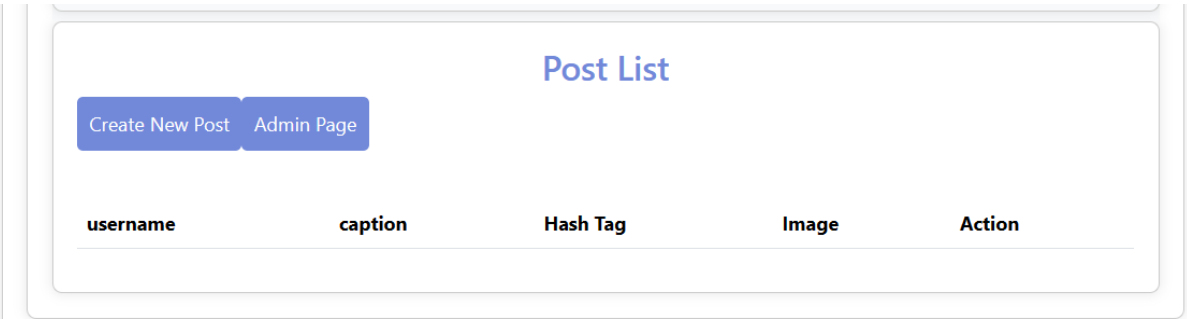
- This screenshot shows post has been created



5) Delete Post

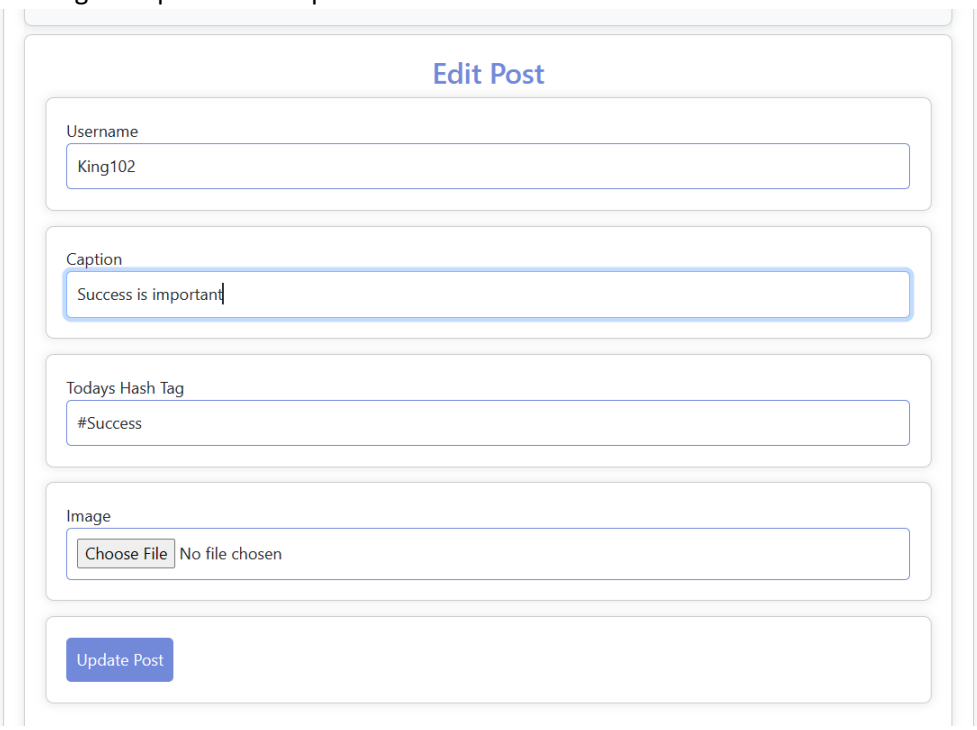


- Showing that post has been deleted.

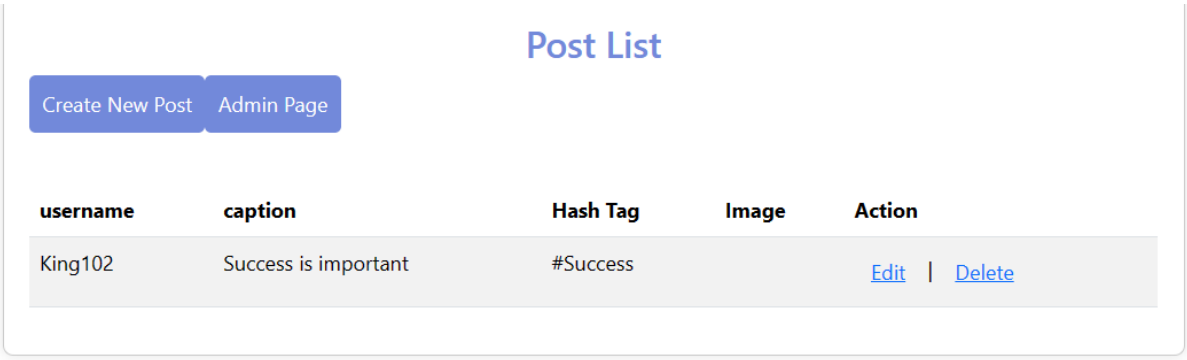


6) Edit Post

- Showing the update to the post.



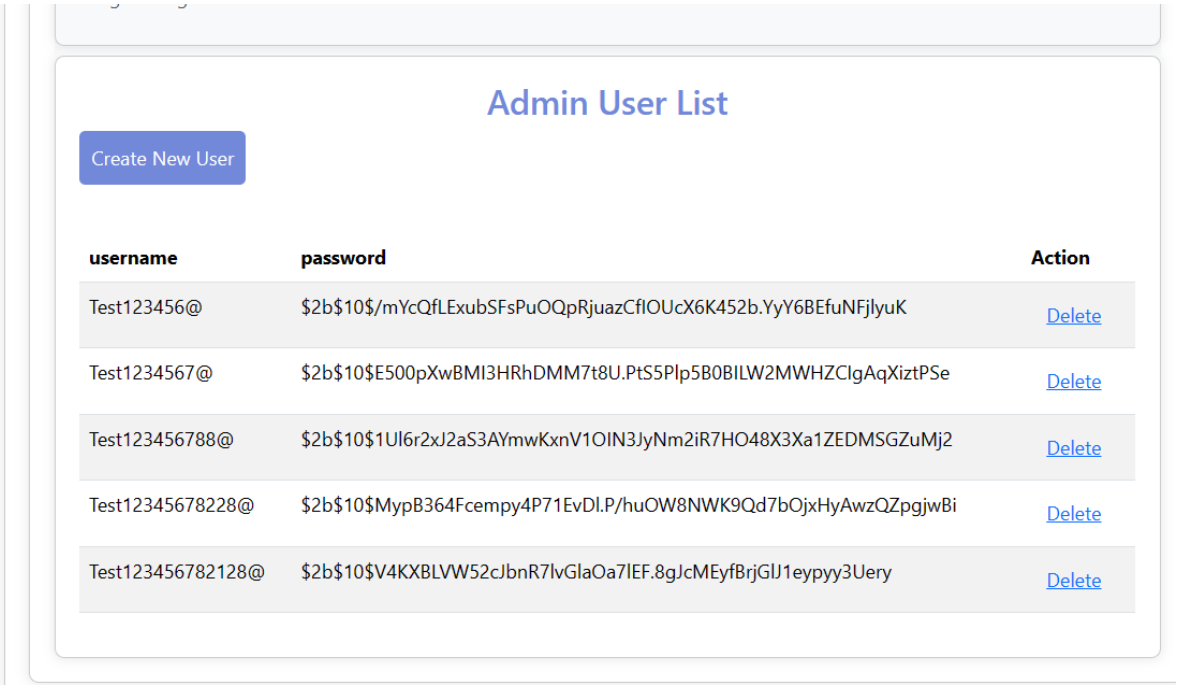
- Showing the change made by the update



7) Admin Page

- Take Admin to the all user account

- Showing all user accounts , user password is being hashed and salted using bycrypt



8) Git Hub Link

Git hub link: https://github.com/ST10084299/ST10084299_APDS7311_POE.git

9) Client and Server Running

- Showing the server running on port 5050.

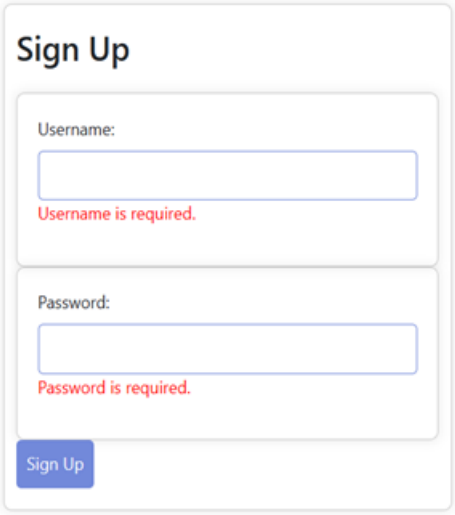
```
C:\Users\razia\Muhammad Ismail_ST10084299_APDS7311_Task 2\ST10084299_APDS7311_TASK2\Mern>cd server

C:\Users\razia\Muhammad Ismail_ST10084299_APDS7311_Task 2\ST10084299_APDS7311_TASK2\Mern\Server>node server.mjs
mongodb+srv://st10084299:Janegrow20@cluster0.frc9wxj.mongodb.net/
^C
C:\Users\razia\Muhammad Ismail_ST10084299_APDS7311_Task 2\ST10084299_APDS7311_TASK2\Mern\Server>node server.mjs
mongodb+srv://st10084299:Janegrow20@cluster0.frc9wxj.mongodb.net/
connected to db
C:/Users/razia/ST10084299_APDS7311_TASK2/Mern/Server/keys/certificate.pemCert and keyC:/Users/razia/ST10084299_APDS7311_TASK2/Mern/Server/
keys/privatekey.pem
Server is running on port: 5050
```

- Showing the client is running.

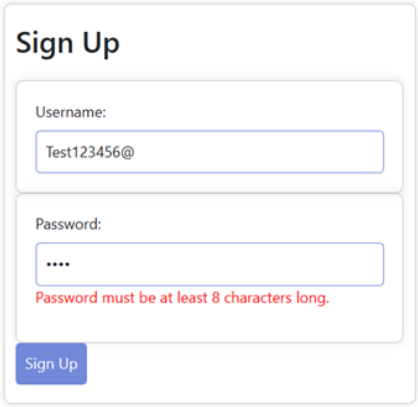
```
C:\Users\razia\Muhammad Ismail_ST10084299_APDS7311_Task 2\ST10084299_APDS7311_TASK2\Mern>cd client
Compiled successfully!

You can now view client in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.9.7:3000

Note that the development build is not optimized.
To create a production build, use npm run build.
```

10) Validation

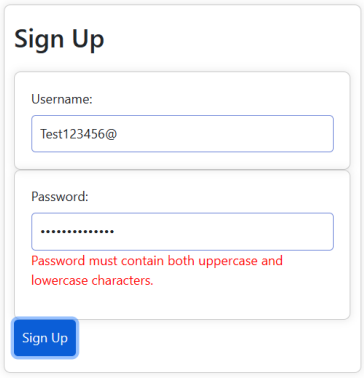
- This is a screenshot showing input validation for signing up.



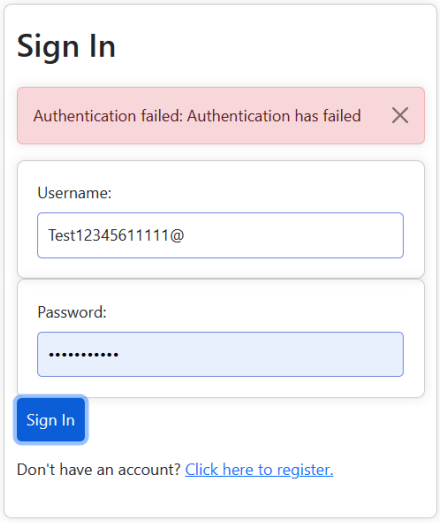
- This screenshot shows the sign-up validation of the password length.



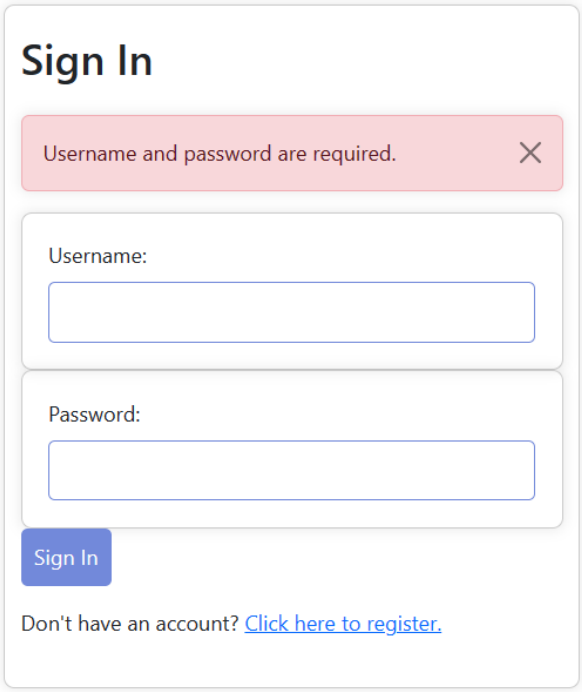
- This screenshot shows the implementation regex for the password.



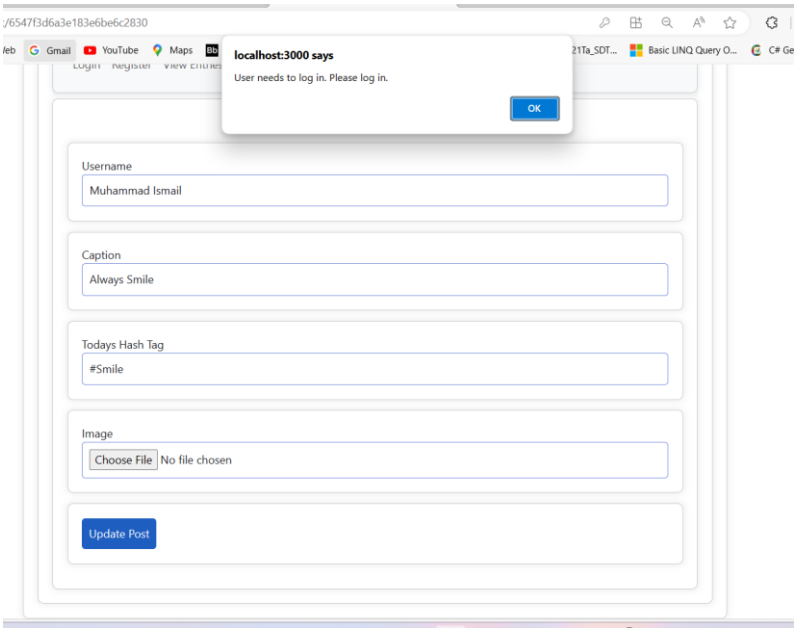
- Showing the Login Validation when user has not authenticated successfully



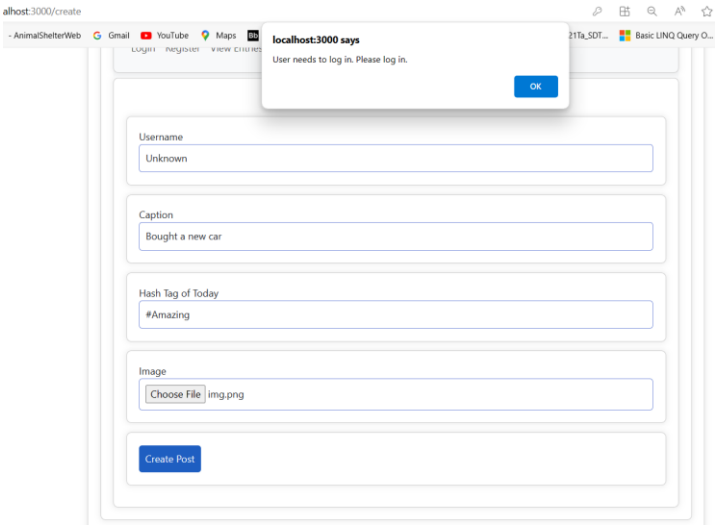
- This Screenshot shows username and password is required



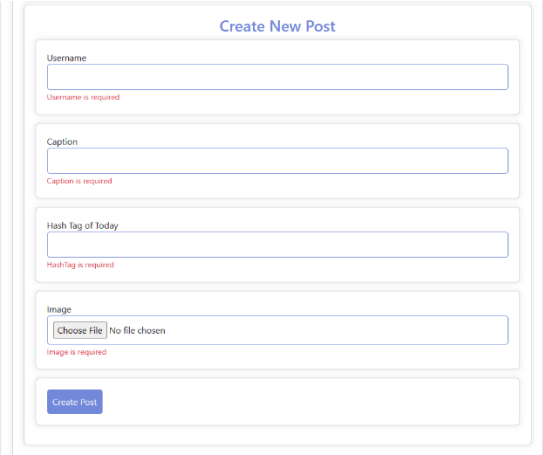
- This screenshot shows session token validation for editing posts.



- This screenshot shows Session Token Validation for creating Post



- This screenshot show that Username,caption ,hastag and image is required

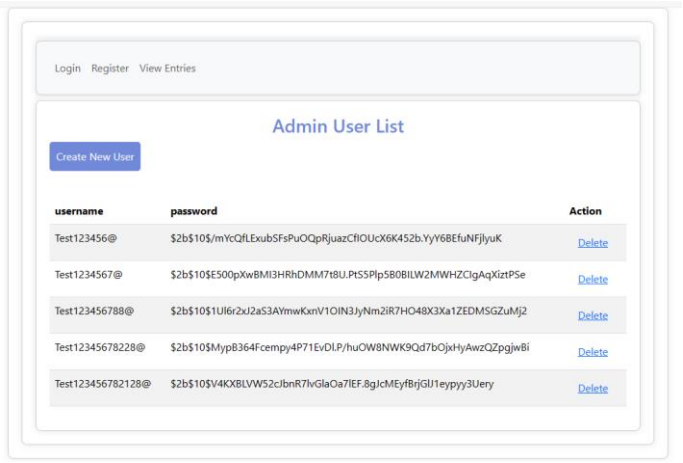


- We have implemented input Sanitization using DOMPurify to ensure users account were protected

```
const navigate = useNavigate();

const handleSignup = async () => {
  try {
    const MIN_PASSWORD_LENGTH = 6;
    const Max_PASSWORD_LENGTH = 10;

    const sanitizedUsername = DOMPurify.sanitize(username.trim());
    const sanitizedPassword = DOMPurify.sanitize(password.trim());

    if (!sanitizedUsername) {
      setUsernameError('Username is required.');
      return;
    }
```

11) Password Obscurity

- This screenshot is showing the all user accounts:



12) User Login Detail

Login 1:

Username:Test123456@

Password: Test123456@

Login 2:

Username:Test1234567@

Password: Test1234567@

13) Referencing

sweetalert2. (2023). How to Use DOMPurify in JavaScript. [online] Available at: https://sweetalert2.com/how-to-use-dompurify-in-javascript [Accessed 28 October. 2023].

W3schools.com. (2020). React Tutorial. [online] Available at: https://www.w3schools.com/react/default.asp. [Accessed 29 October. 2023].

freeCodeCamp.org. (2023). How to Validate Forms in React – A Step-By-Step Tutorial for Beginners. [online] Available at: https://www.freecodecamp.org/news/how-to-validate-forms-in-react/.

[Accessed 1 Nov. 2023].