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Module Name: APPLICATION
DEVELOPMENT SECURIT

Module Code: APDS7311

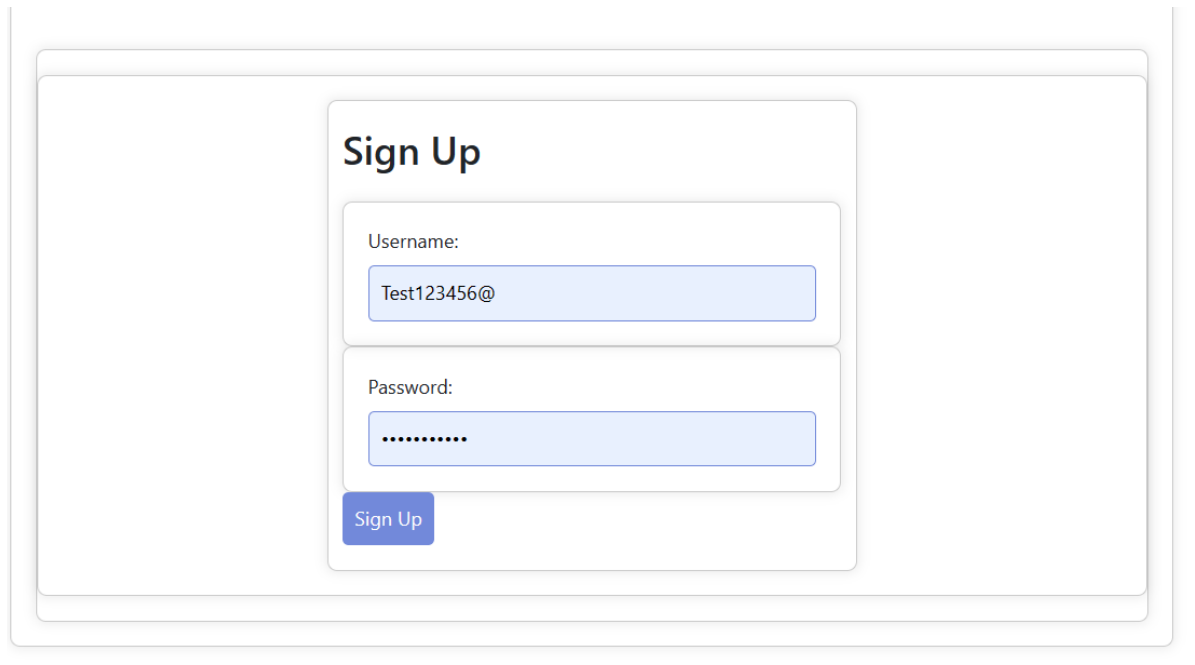
POE

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1) Register a new User

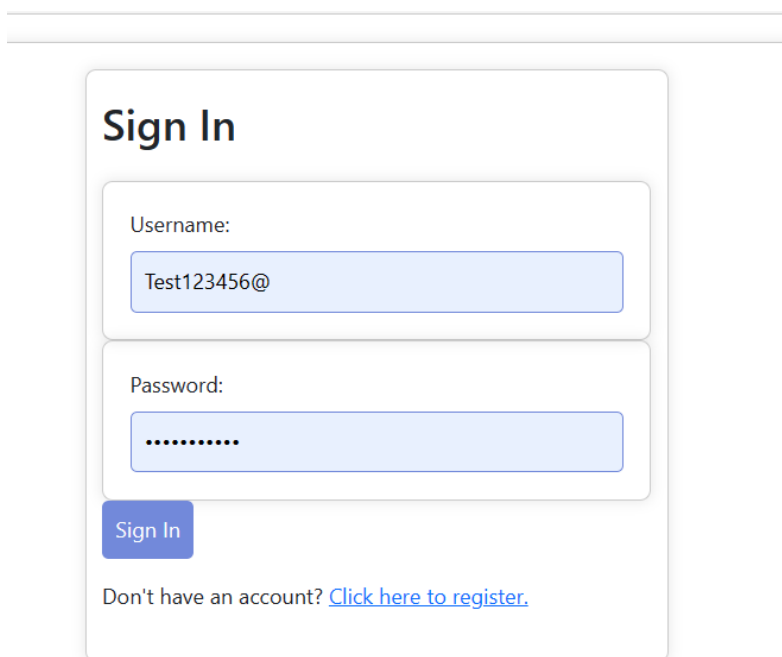
Showing register of new user



A mockup of a 'Sign Up' form. The form is titled 'Sign Up' in a large, bold font. Below the title, there are two input fields: 'Username:' with the text 'Test123456@' and 'Password:' with a masked password '.....'. A blue 'Sign Up' button is located below the password field. The form is presented as a card with a subtle shadow, set against a light gray background.

2) Login

- Showing the login of a user



A mockup of a 'Sign In' form. The form is titled 'Sign In' in a large, bold font. Below the title, there are two input fields: 'Username:' with the text 'Test123456@' and 'Password:' with a masked password '.....'. A blue 'Sign In' button is located below the password field. At the bottom of the form, there is a link: 'Don't have an account? [Click here to register.](#)'. The form is presented as a card with a subtle shadow, set against a light gray background.

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



```
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
Your new token is eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6I1Rlc3QxMjM0NTY3QCI6IjBhc3B3JkIjoiaGVzZDEyMzQ1NjdBW0IjoxNjg5
MTUzOTMxLjE4IjE2OTkzNTc1MzF9.FeyoQb5tDSagMIQAcvsvfRe1o2LX6mMNIcCuDj7758
```

Console Log:

```
Error in event handler: TypeError: Cannot read properties of undefined (reading 'newValue') recordlist:1
at chrome-extension://hnfanknocfeofbdcgijmhnfnkdnaad/content.js:2:126472
Login in Successful login.js:46
The token is create.js:8
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6I1Rlc3QxMjM0NTY3QCI6IjBhc3B3JkIjoiaGVzZDEyMzQ1NjdBW0IjoxNjg5
MTUzOTMxLjE4IjE2OTkzNTc1MzF9.FeyoQb5tDSagMIQAcvsvfRe1o2LX6mMNIcCuDj7758"
The token is create.js:8
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6I1Rlc3QxMjM0NTY3QCI6IjBhc3B3JkIjoiaGVzZDEyMzQ1NjdBW0IjoxNjg5
MTUzOTMxLjE4IjE2OTkzNTc1MzF9.FeyoQb5tDSagMIQAcvsvfRe1o2LX6mMNIcCuDj7758"
```

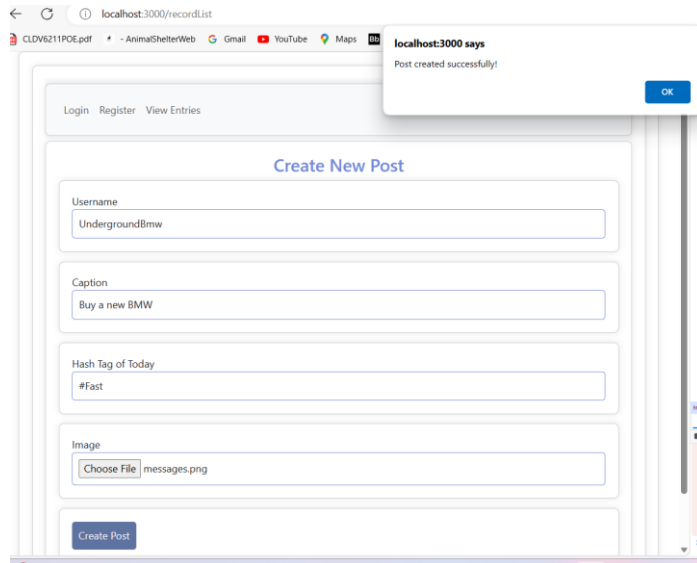
3) Get All Post

- This screenshot shows all posts.

Post List				
Create New Post		Admin Page		
username	caption	Hash Tag	Image	Action
Muhammad Ismail	Always Smile	#Smile		Edit Delete
UndergroundBmw	Buy a new Car	#Fast&furiose		Edit Delete

4) Create Post

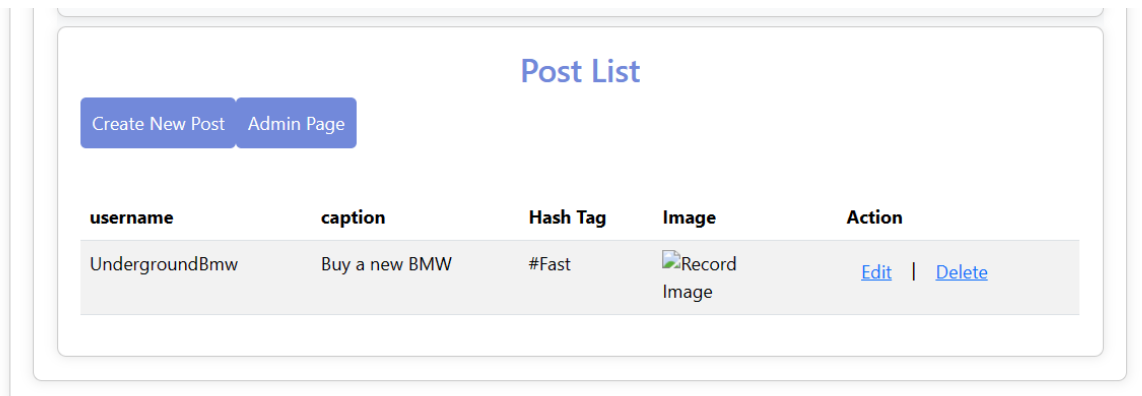
- This screenshot shows that the post was created successfully using validation.



Console logs




- This screenshot shows post has been created



5) Delete Post

Post List

Create New PostAdmin Page

username	caption	Hash Tag	Image	Action
UndergroundBmw	Buy a new BMW	#Fast	 Record Image	Edit Delete

- Showing that post has been deleted.

Post List

Create New PostAdmin Page

username	caption	Hash Tag	Image	Action
----------	---------	----------	-------	--------

6) Edit Post

- Showing the update to the post.

Edit Post

Username

King102

Caption

Success is important

Todays Hash Tag

#Success

Image

Choose File

No file chosen

Update Post

- Showing the change made by the update

Post List				
Create New Post Admin Page				
username	caption	Hash Tag	Image	Action
King102	Success is important	#Success		Edit Delete

7) Admin Page

- Take Admin to the all user account

[Admin Page](#)

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

Admin User List		
Create New User		
username	password	Action
Test123456@	\$2b\$10\$/mYcQfLExubSFsPuOQpRjuazCfIOUcX6K452b.YyY6BEfuNFjlyuK	Delete
Test1234567@	\$2b\$10\$E500pXwBMI3HRhDMM7t8U.PtS5Plp5B0BILW2MWHZCIGaQXiztPSe	Delete
Test123456788@	\$2b\$10\$1Ul6r2xJ2aS3AYmwKxnV1OIN3JyNm2iR7HO48X3Xa1ZEDMSGZuMj2	Delete
Test12345678228@	\$2b\$10\$MypB364Fcempy4P71EvDI.P/huOW8NWK9Qd7bOjxHyAwzQZpgjwBi	Delete
Test123456782128@	\$2b\$10\$V4KXBLVW52cJbnR7lvGlaOa7IEF.8gJcMEyfBrjGU1eyppy3Uery	Delete

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>node server.mjs
mongodb+srv://st10084299:Janegrow20@cluster0.frc9wvj.mongodb.net/
^C
C:\Users\razia\Muhammad Ismail_ST10084299_APDS7311_Task 2\ST10084299_APDS7311_TASK2\Mern>node server.mjs
mongodb+srv://st10084299:Janegrow20@cluster0.frc9wvj.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!

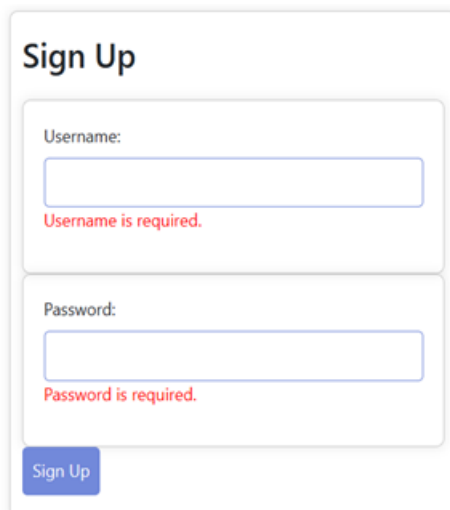
You can now view client in the browser.

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.
```

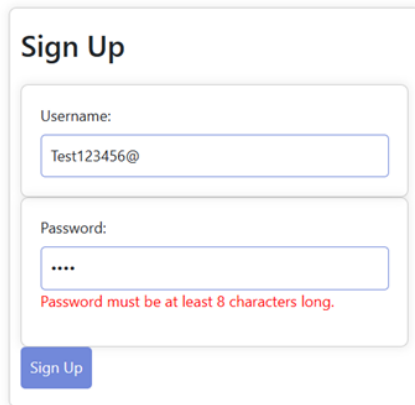
10) Validation

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



The screenshot shows a 'Sign Up' form with two input fields. The 'Username' field has a red error message 'Username is required.' below it. The 'Password' field has a red error message 'Password is required.' below it. A blue 'Sign Up' button is at the bottom left of the form.

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



Sign Up

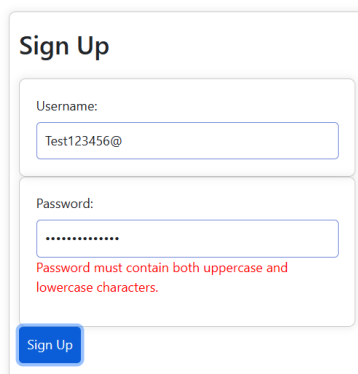
Username:

Password:

Password must be at least 8 characters long.

[Sign Up](#)

- This screenshot shows the implementation regex for the password.



Sign Up

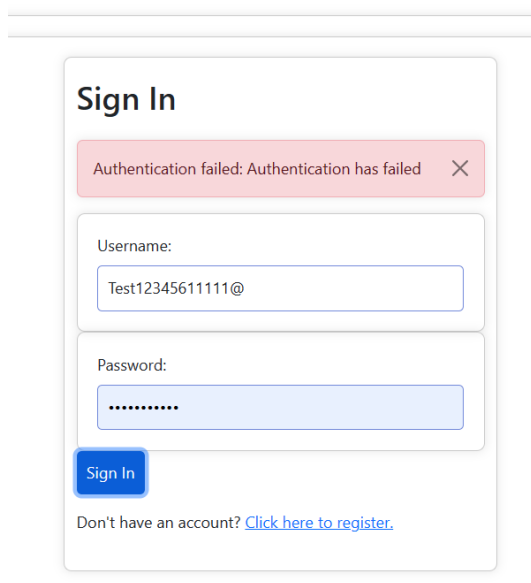
Username:

Password:

Password must contain both uppercase and lowercase characters.

[Sign Up](#)

- Showing the Login Validation when user has not authenticated successfully



Sign In

Authentication failed: Authentication has failed ✕

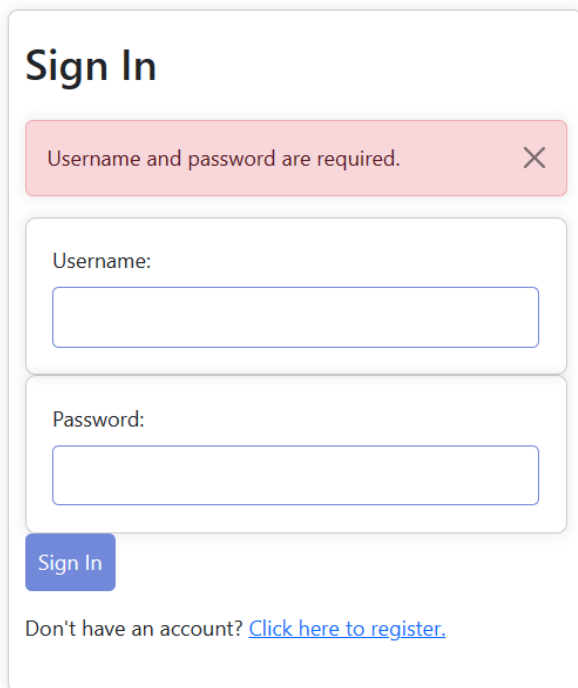
Username:

Password:

[Sign In](#)

Don't have an account? [Click here to register.](#)

- This Screenshot shows username and password is required



Sign In

Username and password are required. ✕

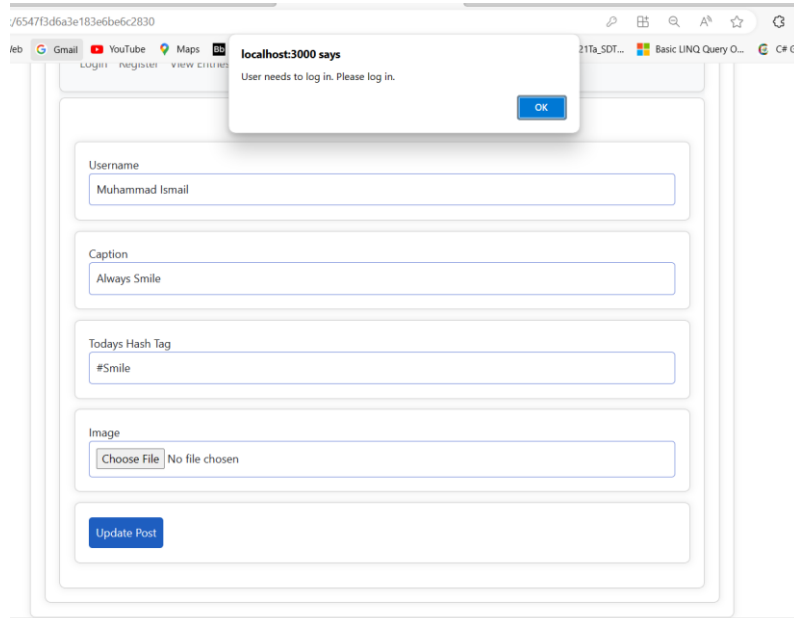
Username:

Password:

Sign In

Don't have an account? [Click here to register.](#)

- This screenshot shows session token validation for editing posts.



localhost:3000 says
User needs to log in. Please log in. **OK**

Username
Muhammad Ismail

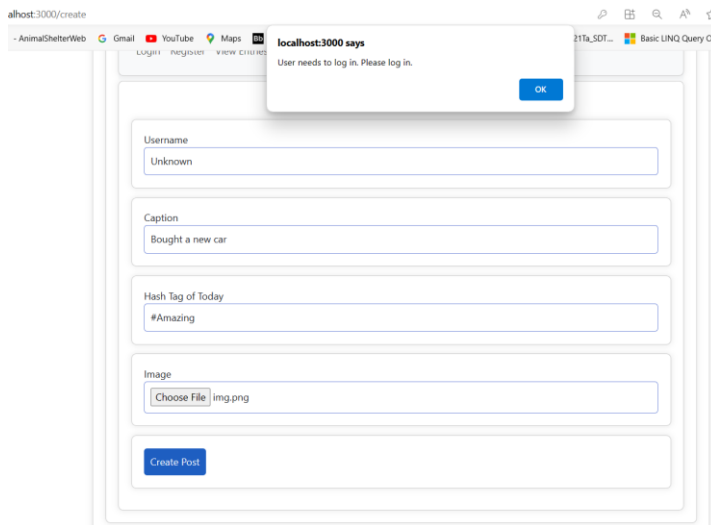
Caption
Always Smile

Today's Hash Tag
#Smile

Image
Choose File No file chosen

Update Post

- This screenshot shows Session Token Validation for creating Post



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

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

```
const navigate = useNavigate();

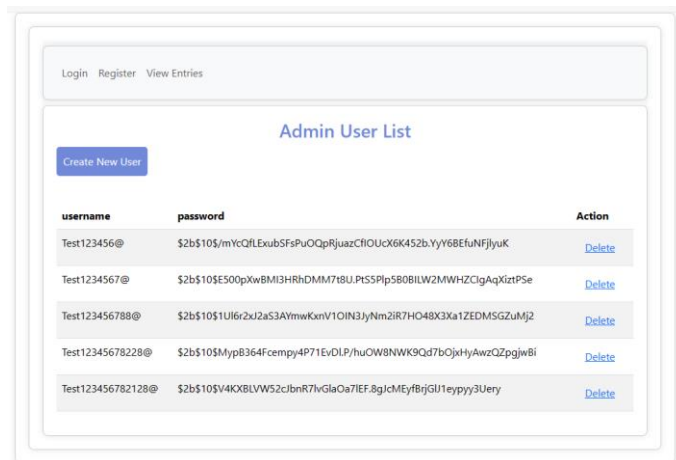
const handleSignup = async () => {
  try {
    const MIN_PASSWORD_LENGTH = 6;
    const Max_PASSWORD_LENGTH = 10;

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

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

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].