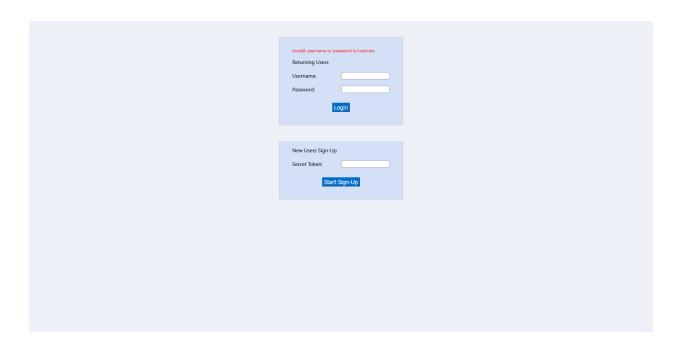
I used some code from a previous feedback site that I had to create in Engineering Secure Software. However, a lot of things had to be rewritten and modified to ensure all functionality was introduced. Several files had to be written from scratch. Most of the HTML and CSS was able to be reused. As such, I apologize if the code is a bit inconsistent in some places.

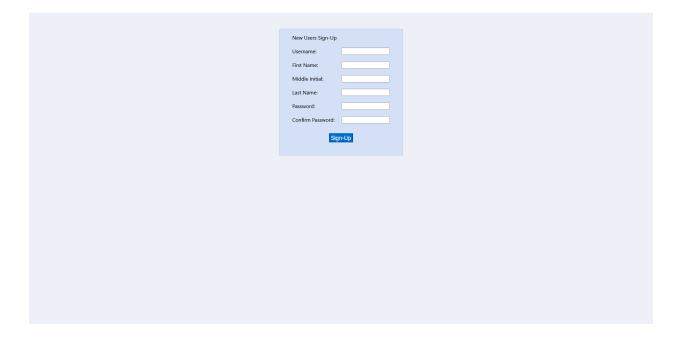
I wiped the database and reran the configuration script before starting. When the site is first visited, we have the choice to logon or enter the token needed to create an account.

Returning Users		
Username:		
Password:		
I	Login	
New Users Sign-U	Jp	
Secret Token:		
Sta	art Sign-Up	

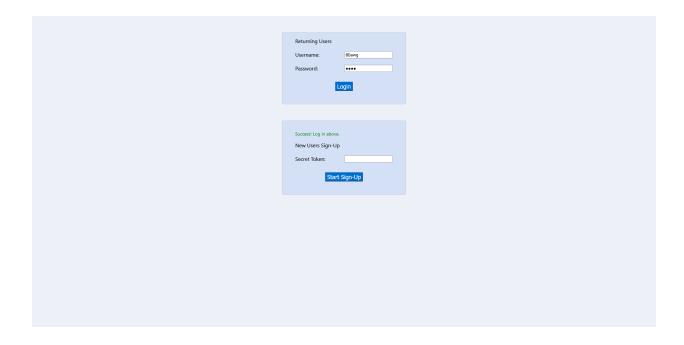
I enter some random nonsense into the returning users box and hit enter. I get an error message about invalid credentials. Since the user I entered doesn't exist, there won't be an entry into the attempt logons table.



After entering the token "WebScienceRules" into the new users sign up form, I am redirected to the correct form.



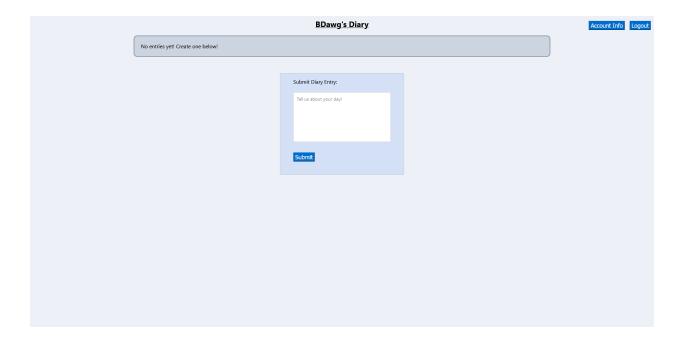
I enter some data and select sign up. I don't show it here, but I do check that passwords match and show a message if they don't. I also check that the name isn't used already. A message is shown to indicate success.



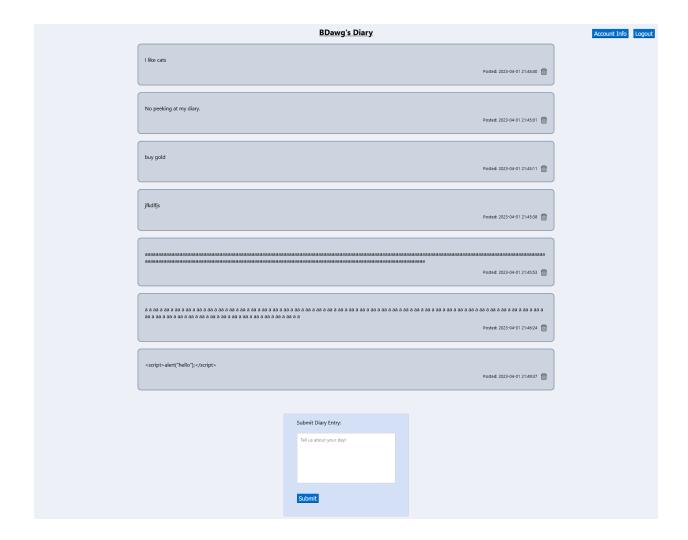
I haven't logged in yet, so if I look at the database, I should see one user and no entries in the diary entries table or logon attempts table.



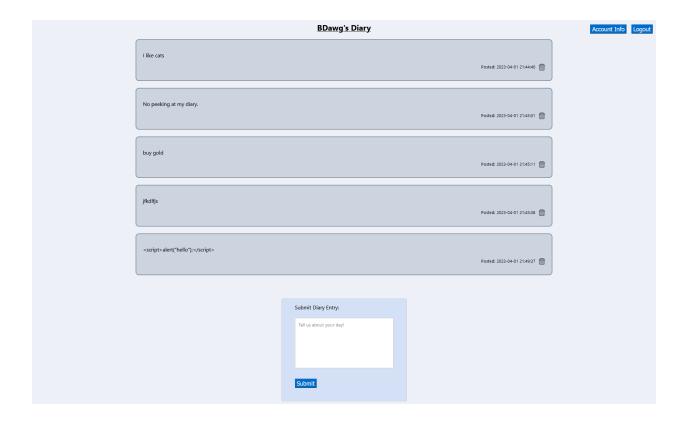
When logged on, I see this. My username is visible as well as a link to the account info (logon history) and a button to logout.



I inserted a bunch of entries. You can't tell in the picture, but the buttons are stuck to the corner and will always be there when you scroll. I also tested inserting some HTML code. Prepared statements are used whenever data is being inserted into a string. The date and time of the post is in the corner (the time on my server doesn't seem to match my computer's time) and a trash bin icon button is used to delete things. It is actually a form and clicking the image submits it.



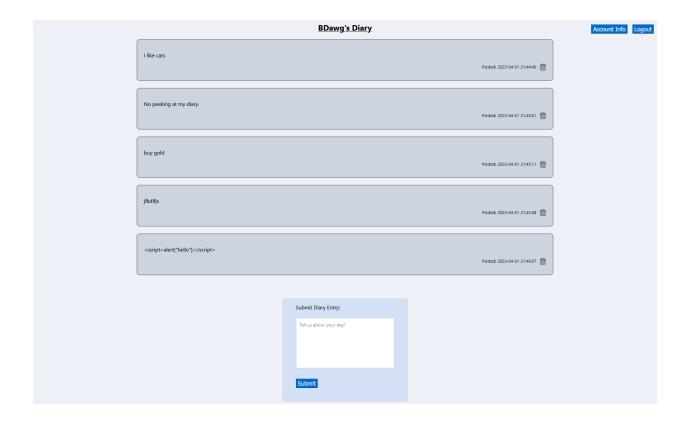
I delete a couple to make sure the delete functionality works.



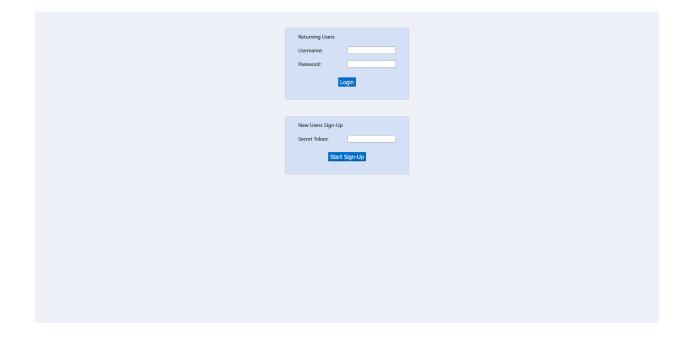
I click the account info button and am able to view my logon history.



Clicking the diary entries button brings me back to my diary entries.



Clicking the logout button destroys my session and brings me to the landing page so I can sign back in or create another account.

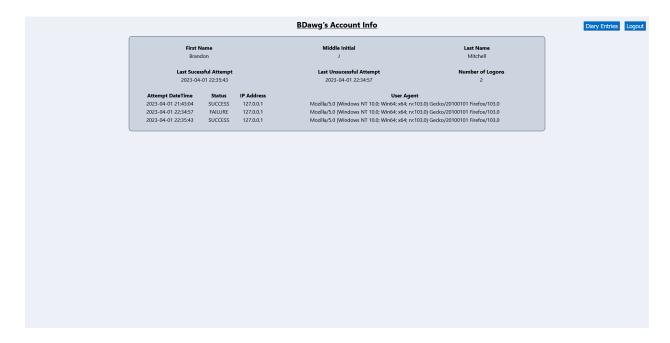


I can verify it logged me out correctly by trying to visit the entries page again. I am redirected back to the landing page with an error message. I also test with the account info page and get the same message.

I go ahead and try signing in again but with an incorrect password. I get a warning and I don't sign in. Behind the scenes, the logon history is updated.

Invalid username or password is incorrect.	
Returning Users	
Username:	
Password:	
Login	
New Users Sign-Up	
Secret Token:	
Start Sign-Up	

I log in with the correct information and then check the logon history. We see that there are two new entries: one for an unsuccessful attempt and one for a successful attempt. This makes sense. The last unsuccessful logon is updated. The number of logons is at two. I interpreted it as the number of successful logons, not the total logon attempts, so it shows 2 for the two successful attempts.



I go ahead and try creating another user. I put the wrong token in this time to verify it correctly redirects me.

Returning Users	
Username:	
Password:	
Lo	Login
Incorrect Token.	
New Users Sign-Up	j
Secret Token:	
Start 5	t Sign-Up

I go ahead and create another user and then log in. I am unable to see the other user's entries on the entries page and I see the new user's info on the account info page.

	<u>Cats's Diary</u>		Account Info Logout
No entries yet! Create one below!			
	Submit Diary Entry: Tell us about your day! Submit		
	Cats's Account Info		Diary Entries Logout
First Name Cats	Cats's Account Info Middle Initial	Last Name Cats	Diary Entries Logout
	Middle Initial		Diary Entries Logout
Cats Last Sucessful Attempt	Middle Initial C Last Unsucessful Attempt ress Us	Cats Number of Logons	Diary Entries Logout

I create a third user with some HTML in their name to verify I am correctly escaping HTML from the user. It appears to show correctly, so the escaping should be working.

	<u><</u>	div>cats's Account Info		Diary Entries
	rst Name >cats	Middle Initial h	Last Name <div>cats</div>	
	ssful Attempt 4-01 22:46:11	Last Unsucessful Attempt	Number of Logons 1	
Attempt DateTime 2023-04-01 22:46:11	Status IP Address SUCCESS 127.0.0.1	User Agent Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:1		