

ECS-Microblog Final Submission

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1. Application Overview

- 1.1. This is a Microblog focusing on hiking related topics, it features user authentication, ability to post, and profile viewing for logged in users. The website's data is managed through sqlite database to have persistent posts in case the server goes down. This also includes the login process for already registered users and when a new user registers. Users will be required to sign in to a google account through OAuth to create an account or to sign in to an already registered one. User can also manage their account through a deletion feature and username change feature.


2. Application Features

- 2.1. Authentication: This application features user authentication through express sessions, user information is managed throughout a session allowing a user to log in and out of an account. Currently all features of authentication are fully functioning. A photo of the login/register screen and updated view once logged in can be found in the appendix A.
 - 2.1.1. Registration: Users may register for an account with the use of a username, a post request is then sent where a new user object is created and added to our array of users.
 - 2.1.2. Logging in: Users may login to an account by signing in with their google account.
 - 2.1.3. Logging out: Users will simply click the logout button and then be redirected to the home page, and all session variables will be cleared to indicate no one is logged in.

- 2.2. Post Management: This set of features involves the creation, liking, and deleting of posts. Currently all features of post management are fully functioning. A photo of posts can be found in the appendix A.
- 2.2.1. Creating Post: To create a post a user must be logged in and the session variable set server side. Then the user is able to make a post from the home page. They must enter a title and text in the body, they are also able to add emojis through the emoji api call.
- 2.2.2. Liking Post: If a user is logged in they are able to like a post, the post author must not be the currently logged in user. An id of the post being liked is sent to the server and the likes for that post id are incremented. One update would be so a user can't like a post multiple times, but that would require storing liked posts for all users individually, and I think that is outside the scope of this first part.
- 2.2.3. Deleting Post: If a user is logged in and the post is authored by the currently logged in user they are able to delete the post, which sends a request to the server with the post id. That post is then removed from array storing posts. Deletion can be done from both the home page and the profile page.
- 2.2.4. Sorting Posts: Users are now able to sort the posts that are returned from the database. They can sort by either the most likes or by recency of posts. (Appendix B)
- 2.3. Profile Viewing: Once logged in users can see their profile displaying all the posts they have made, it also allows for the deletion of any of their posts from their. Currently the profile page is fully functioning and displays posts as well as allows the deletion of them.

- 2.4. Avatars: User avatars are generated on profile registration, the avatar is a canvas object that is returned to the client as a png and stored in the server as a png. The avatar gets a background color based on a given color scheme, and then populated the center of the canvas with the first letter in the username if no letters are in their name it chooses A. Currently the avatar is fully functioning, and is correctly populated for all posts, profile, and nav bar.
- 2.5. Profile Management: Additional features to support greater user control over their stored data, through the ability to delete their account and edit their name. Photos can be found in appendix C.
 - 2.5.1. Account deletion: From the profile screen users are able to delete their account, which will remove their user account from the db as well as all posts associated with that account.
 - 2.5.2. Username change: From the profile screen users can change their current username, all posts will be updated with the new user username.

Appendix A



Hiking Trail Blog

[Home](#) [Login/Register](#)

Recent Posts

A

Another Post

This is another sample post.

♥ 0 likes

posted by AnotherUser on 2024-01-02 12:00

S


Sample Post

This is a sample post.

♥ 0 likes

posted by SampleUser on 2024-01-01 10:00

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Hiking Trail Blog

[Home](#) [Login/Register](#)

Login

Username:

Login

-OR-

Register

Username:

Register

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Create A New Post

enter a title

Whats on your mind SampleUser

 Post

Recent Posts

A

Another Post

This is another sample post.

 0 likes posted by AnotherUser on 2024-01-02 12:00

S

Sample Post

This is a sample post.

 0 likes posted by SampleUser on 2024-01-01 10:00



Create A New Post

enter a title

Whats on your mind SampleUser


 Post

Recent Posts

S

New Post


TEST

 0 likes posted by SampleUser on 2024-4-2 11:3

A

Another Post

This is another sample post.

 0 likes posted by AnotherUser on 2024-01-02 12:00

Create A New Post

enter a title

Whats on your mind SampleUser

Post

Recent Posts

S

New Post

TEST

0 likes posted by SampleUser on 2024-4-2 11:3



User Profile

Username: SampleUser
Member since: 2024-01-01 08:00

Your Posts


S

New Post

TEST

0 likes posted by SampleUser on 2024-4-2 11:3

Appendix B

Hiking Trail Blog

HomeLoginRegister

Recent Posts

Sort Posts

By Likes

By Recency

A

Second Post

This is the second post

♥ 6 likes

posted by user2 on 2024-01-02 12:30:00

S

Hello

Gamer

♥ 0 likes

posted by SampleUser on 2024-4-4 10:19

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Appendix C

Login with google

Login

Recent Posts

Sort Posts

By Likes | By Recency

A

Second Post

This is the second post

♥ 6 likes

posted by user2 on 2024-01-02 12:30:00


S

Hello

Gamer

♥ 0 likes

posted by SampleUser on 2024-4-4 10:19


Hiking Trail Blog

HomeProfileLogout JacobJ

Create A New Post

enter a title

Whats on your mind Jacob

Post

Recent Posts

Sort Posts

By Likes

By Recency

S

First Post

This is the first post

♥ 1 likes posted by SampleUser on 2024-01-01 12:30:00

A

Second Post

This is the second post

♥ 0 likes posted by AnotherUser on 2024-01-02 12:30:00

J

Hello

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Hiking Trail Blog

HomeProfileLogout JacobJ

J

User Profile

Username: Jacob

Member since: 2024-5-3 18:7

Delete Account

Update Username

Your Posts

J

Hello

This is my first post!

 0 likes posted by Jacob on 2024-5-3 18:7

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