

ECS-Microblog Part A

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1. Application Features

- 1.1. 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.
 - 1.1.1. 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.
 - 1.1.2. Logging in: Users may login to an account by entering the username of the account they want to login to. Once the username is verified to be in our list of users, the session variable is set till the user decides to logout.
 - 1.1.3. 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.
- 1.2. 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.
 - 1.2.1. 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.
 - 1.2.2. 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.

- 1.2.3. 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.
- 1.3. 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.
- 1.4. 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.