

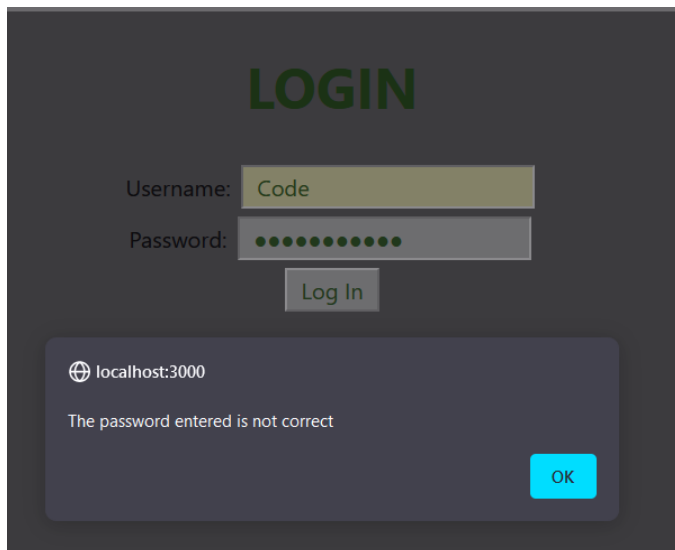
Phase I Report

Deliverables:

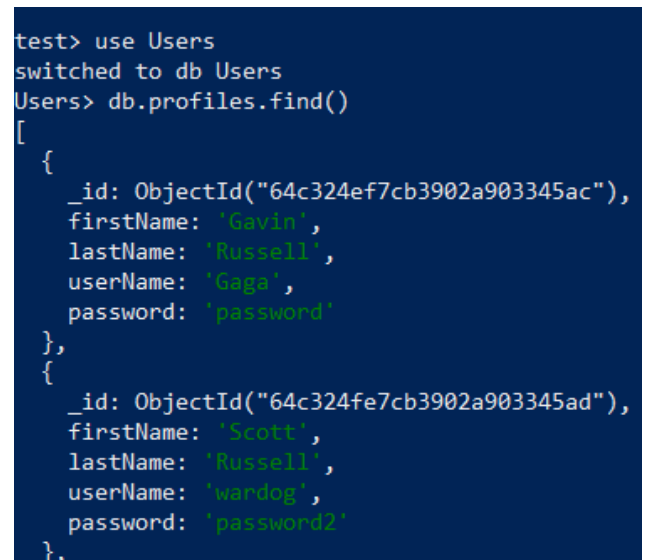
Below are the tasks accomplished during the Phase I development cycle of this project.

Backend Implementation Work

The login and signup portions were successfully and completely implemented in this phase. The Login and sign up are their own components, each one allowing the user to enter the necessary information (username, password, full name) and then hit the sign up/login button to complete action. Once the action is initiated, the server goes through multiple checks for errors and then sends a request to the other server which attempts to connect to the database and complete the appropriate action. If the action is successful, the user is logged in and a cookie is made for the web page which stores their username and keeps them logged in, even when the webpage is closed and reopened. If unsuccessful, then it shows what the issue was, such as "Username is already taken", "The password is incorrect", or "There was an issue connecting to the database" and has the user try again. An example of this is shown in screenshot 1. As for the database itself, it follows a simple structure. For now, there is a database called 'Users' which holds all of the user profiles, including all of their information. This structure is shown in screenshot 2.



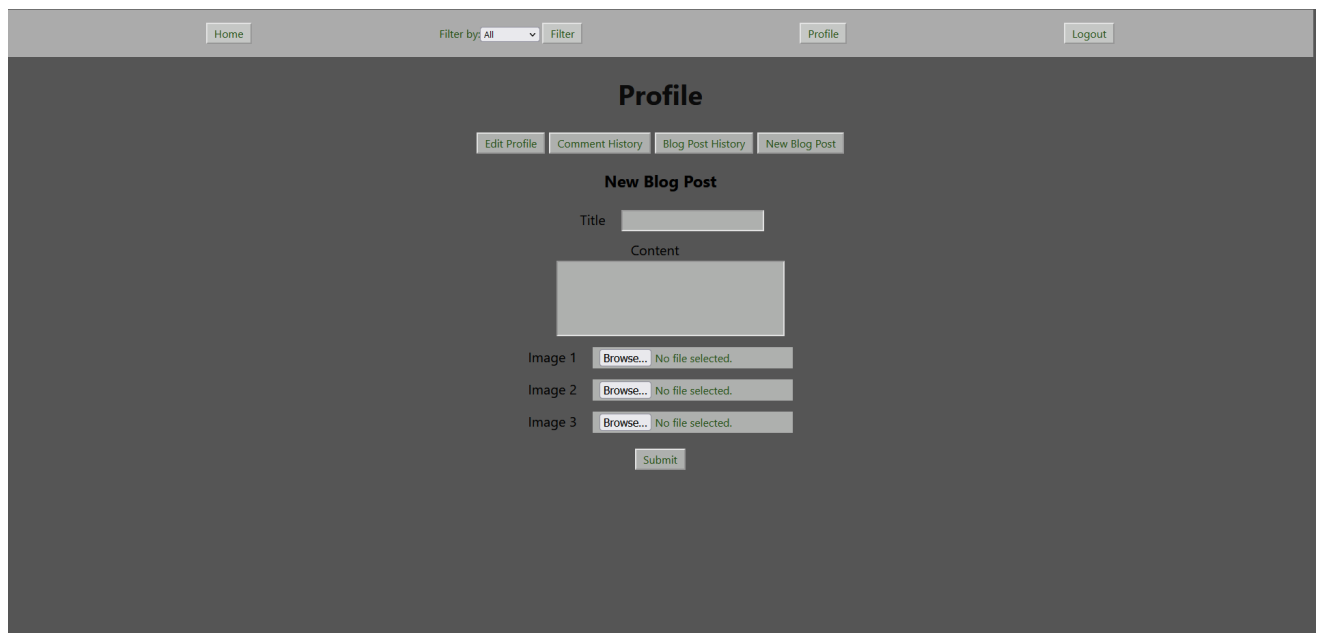
Screenshot 1



Screenshot 2

Frontend Implementation Work

Implementation of the front end of the site revolved around completely setting up the website navigation, including distinguishing what navigation is available when a user is logged in or browsing as a guest. This was accomplished by using the cookies implemented during the login/signup portion of the site's backend development (discussed above). If the user is logged in and navigates to their profile they will also be given access to a sub-navigation bar for viewing and editing their profile, previous comments, and previous posts (shown below). They can also choose to create a new post from their profile page.



The screenshot displays a web application interface for a user profile. At the top, a navigation bar includes links for 'Home', 'Filter by: All' (with a dropdown arrow), 'Filter', 'Profile', and 'Logout'. Below this, the 'Profile' section is titled, followed by a sub-navigation bar with links: 'Edit Profile', 'Comment History', 'Blog Post History', and 'New Blog Post'. The 'New Blog Post' form is the central focus, featuring a 'Title' input field, a 'Content' text area, and three image upload slots labeled 'Image 1', 'Image 2', and 'Image 3'. Each slot contains a 'Browse...' button and the text 'No file selected.'. A 'Submit' button is positioned at the bottom of the form.

Screenshot 3

Along with navigation each component that can be navigated to/interacted with by the user has been created and skeletal content has been added. The skeletal content is used for demonstrative purposes for the moment and will be replaced during Phase II development. All of the components have also been given CSS styling to allow for a better web page viewing experience, though it is far from professional quality.

Challenges and Moving Forward

During Phase I development the biggest challenge faced by the team was creating references to child components. These were required to allow a parent component, MainPage, to access the state of child components, SignUp and LoginPage. This was something that was not covered during the course of the class so it required additional research to do.

Moving forward the team will need to modify the front end components to update their content on the server using an API. This will allow content to be stored in the database long term. The database, server, and API will need to be fleshed out to intake these requests appropriately.

Although the team originally intended to allow users to edit their comments, initial work with the database showed this would require a much more complicated architecture to properly handle updates. In order to keep the time and scope of the project to a realistic scale this feature was dropped from development.