

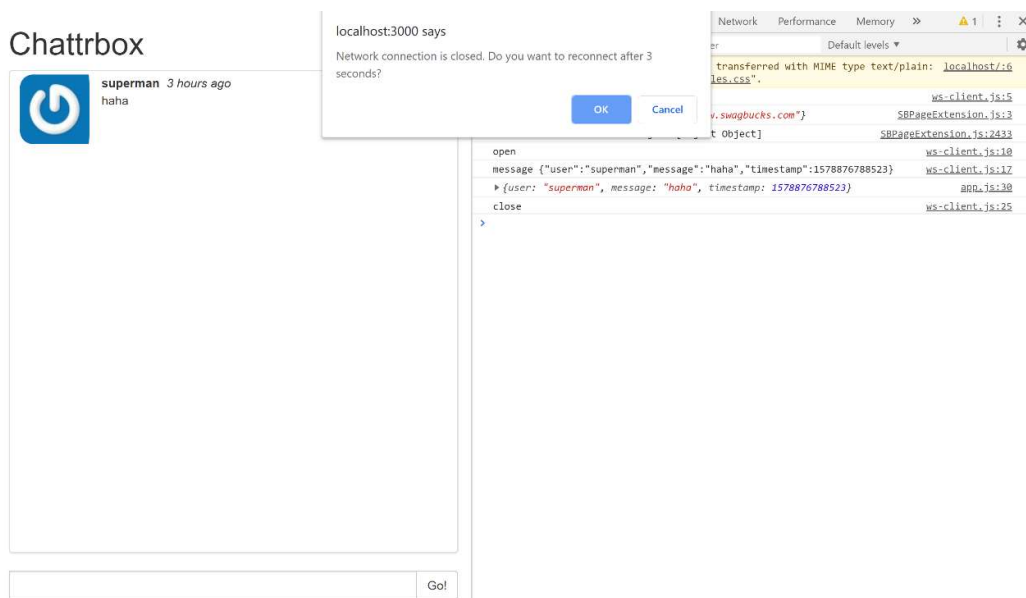
CSCI354 Assignment 5

NOTE: Be sure to make a copy of your code before working on this assignment! It may require significant changes to the markup, styles and JavaScript files. Use your copy for working on the assignment and leave the original intact for using in class. This also applies to all assignments.

Part A

In the ws-client module of the Chattrbox project, add another function called `registerCloseHandler`. It should take a callback that is invoked when the close event is triggered on the socket.

In `main.js`, use `registerCloseHandler` to alert the user that the connection is closed. Also, if the user chooses to reconnect, a function written by you should be called to attempt to reconnect. Below shows an illustration:



NOTE: To test your code, you cannot close the browser window. You will need to close the other end of the connection.

Hint: The pop-up window can be implemented by `confirm` method.

Part B

Complete the authentication part of Firestore based CoffeeRun by adding another two authentication buttons. One for sign in and the other for sign out. Below shows an illustration:

The screenshot shows the CoffeeRun app interface. At the top, there are three buttons: "Sign-Up" (blue), "Sign-In" (green), and "Sign-Out" (gray). Below these is a "Coffee Order" form with a text input field, an "Email" field containing "dr@who.com", radio buttons for "Short", "Tall" (selected), and "Grande", a "Flavor Shot" dropdown menu set to "None", and a "Coffeine Rating" slider. At the bottom of the form are "Submit" and "Reset" buttons. Below the form is a "Pending Orders:" section showing a list item: "tall mocha milk, (c@olemiss.edu) [12x]".

Similar to Sign-Up, when the user clicks Sign-In, windows will be prompted to ask for user email and password, and then use them to sign in the Firestore. When the user clicked Sign-Out, the app should sign out from Firestore and the Sign-Out button should be disabled until the user signs in again. Below shows an illustration:

This screenshot shows the same CoffeeRun app interface as before, but with a modal dialog box open in the center. The dialog box has a title "This page says" and a message "Please input email:". It contains a text input field with a cursor and two buttons at the bottom: "OK" (blue) and "Cancel" (gray). The background app interface is slightly dimmed.

After user clicks the sign-in button.

This screenshot shows the CoffeeRun app interface after the user has signed out. The "Sign-Out" button is now disabled (grayed out), and the "Sign-In" button remains green. The "Coffee Order" form and the "Pending Orders:" section are still visible.

After user clicks the sign-out button.

NOTE: The user should be able to sign in and sign out as many times as s/he wants without reloading the webpage. And when the user signs in, s/he should be able to submit and/or deliver coffee orders via Firestore.

Part C (Bonus Part)

Back to the Chattrbox project, add a visual effect to new messages. You can fade them in or have them slide in. (Check jQuery's Effects documentation for options.)

NOTE: The visual effect should only be applied to truly new messages – not to messages already in the chat that are loaded by the app when users first sign on or refresh their browser.

Hint: Each message has a data attribute that can help you tell whether it is more than a second or two old. This may be used to help you to determine which messages are truly new messages.