

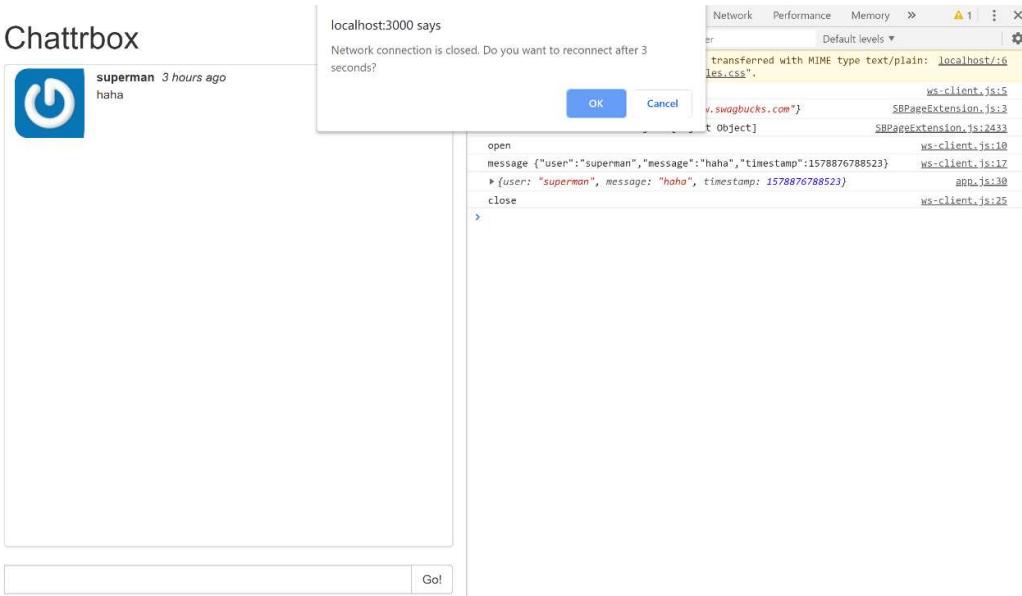
CSCI354 Assignment 5

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 Chatrbox 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 application interface. At the top, there is a navigation bar with three buttons: "Sign-Up" (blue), "Sign-In" (green, currently selected), and "Sign-Out" (grey). Below the navigation bar is a section titled "Coffee Order" containing several input fields and dropdown menus. The "Email" field contains "dr@who.com". The "Size" dropdown menu has "Tall" selected. The "Flavor Shot" dropdown menu has "None" selected. The "Caffeine Rating" slider is set to the middle position. At the bottom of this section are "Submit" and "Reset" buttons. Below this section is a "Pending Orders:" list with one 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:

The screenshot shows the CoffeeRun application interface. At the top, there is a navigation bar with three buttons: "Sign-Up" (blue), "Sign-In" (green, currently selected), and "Sign-Out" (grey). A modal dialog box is displayed in the center of the screen. The dialog has a title "This page says" and a message "Please input email:". It contains a text input field with a placeholder "I" and two buttons at the bottom: "OK" and "Cancel". Below the dialog is a section titled "Coffee Order" containing several input fields and dropdown menus.

After user clicks the sign-in button.

The screenshot shows the CoffeeRun application interface. At the top, there is a navigation bar with three buttons: "Sign-Up" (blue), "Sign-In" (green), and "Sign-Out" (grey, currently selected). Below the navigation bar is a section titled "Coffee Order" containing several input fields and dropdown menus.

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 Chatrbox 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.