COMP 2015 – Assignment 1

Due at the beginning of Lesson 4 to the Dropbox > 'Assignment 1' folder on D2L (learn.bcit.ca)

Access to the dropbox folder for Assignment 1 will close at the beginning of Lesson 4, so make sure to have your assignment submitted before class starts.

Submission

Write **one .js file** named **firstname-lastname-assignment1.js** and submit that file to the Assignment 1 dropbox on D2L. For example, if your name is Chris Harris, your file must be called **chris-harris-assignment1.js**

Only submit your .js file, **do not include any HTML or images**.

Instructions

In this assignment, you will be adding some JavaScript functionality to an existing chat application. An html file, css file, and images have been provided for you, so all you need to do is code your solution inside of an external JavaScript file (using the naming convention above) and link to it in the head of the html file.

An obfuscated JavaScript solution has also been provided, so that you can see how the expected functionality is meant to behave. Uncomment the link in the head to assignment1-solution.js to view, and **make sure to re-comment or remove the link in the head to the solution when you are working on your lab!**

Some helper functions and code have also been provided for you in files called 'assignment1-library.js' and 'assignment1-setlinks.js'. **Do not comment or remove the link to these files in the head – you will need the code inside to run in order for your solution to work.**

Note: the chat application is just static HTML at this point. In assignment 2 we will extend the functionality of the app to retrieve message data from a server and insert it into our page.

Part 1 (1 mark)

Wrap your entire script in a function assigned to the window.onload event.

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Part 2 (7 marks)

Begin by looking at the page in a browser, with your window open at least 800px wide. You should see at the top-left of the page the title 'COMP 2015 Assignment 1', and at the top-right a link that says 'Add User'.

• In your solution, get the menu icon link element using the id *addUser* and attach an onclick event to it.

• The onclick event should call an anonymous function that prompts the user for a name and stores the result in a variable.

• Next, use an if statement to check if the name variable is empty (i.e. we are not allowing new users with an empty name), call addUserFunction() (provided for you in assignment1-library.js) and pass your variable as a parameter. The addUserFunction will then update the list of users for you.

Part 3 (4 marks)

Use JavaScript to change the color of all links on the page to white, unless they contain the class *offline*

Part 4 (3 marks)

Use jQuery to temporarily change the color of all links on the page to dark blue when they are hovered over, unless they contain the class *offline*. That is, each link should be dark blue when the mouse is over it, and white when the mouse is off (and each link must animate separately!)

Part 5 (2 marks)

Use jQuery to disable all links (using event.preventDefault()) that contain the class *offline*

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Part 6 (4 marks)

Take your browser window and resize it so that it is less than 800px wide. You should see the top menu change – the title has now been replaced by a house icon and there is a menu icon (three horizontal stripes referred to as a 'hamburger') on the top-right.

- Get the div with class *header-nav*

- In your solution, get the menu icon element (i.e. the <img> that has src="menu.svg") using .querySelector() and attach an onclick event to it.

- The onclick event should call an anonymous function that does the following:

  - If the list of classes on the .header-nav element contains *hide*, remove class *hide* and add class *show*. Likewise, if the element contains the class *show*, remove class *show* and add class *hide*. This will show and hide the mobile menu.

  - If the list of classes on the .header-nav element contains *hide*, change the src attribute of the menu icon to 'x.svg'. Likewise, if the element contains the class *show*, change the src attribute of the menu icon to 'menu.svg'. This will change the icon to an appropriate image based on whether the mobile menu is open or closed.