## CPSC 473 - Web Programming and Data Management

### Homework Assignment 8 - Spring 2016

#### Section 02 - due April 25, Section 01 - due April 27

In this assignment, you will modify the version of Amazeriffic from [Chapter 7](https://github.com/semmypurewal/LearningWebAppDev/tree/master/Chapter7/app/Amazeriffic) to use [Socket.IO](http://socket.io/).

When a new ToDo item is added, other users browsing the page should see the update without needing to reload the page. All tabs (Newest, Oldest, and Tags) should be updated.

##### Tips

* This may not be as easy as it sounds. Allocate the same amount of time for this assignment as for any previous assignment.
* Consider taking a microservice approach and running real-time notifications as a separate service from list management.
* Consider using a jQuery effect like [.slideDown()](http://api.jquery.com/slidedown/) to emphasize changes to lists.
* Consider setting up a [Procfile](https://ddollar.github.io/foreman/) for your project.

#### Working with Other Students

You may complete this exercise on your own, but you are encouraged to work together with another student.

If you choose to work with a partner:

* Submit only a single assignment.
* Include both names on the submission.
* Each student in a pair will receive the same grade.
* You may discuss the assignment with other pairs, but each pair must submit its own work.
* You may choose to work with a different partner on future assignments.

#### Submission

E-mail the following to [csuf.kenytt.net@gmail.com](mailto:csuf.kenytt.net@gmail.com) by 11:59p on the date indicated:

1. The URL of a new GitHub repository containing your server
2. Screenshots showing the real-time features in action

Include your name and your partner’s name (if you have one) in your e-mail.

Set the Subject: line of your e-mail to

[CPSC 473-02] Assignment 8  
or  
 [CPSC 473-01] Assignment 8

as appropriate. Monday night is Section 02; Wednesday night is Section 01.

You may submit multiple times before the deadline; I will only grade the most recent submission before the deadline, unless your e-mail indicates that I should do something else. Late work will not be accepted after the deadline.

#### Grading

This exercise is worth 10 points:

* 1 point for adding Socket.IO to the server
* 1 point for adding Socket.IO to the client
* 1 point for connecting the client to the server
* 2 points for sending a Socket.IO message to the server when an item is added
* 2 points for alerting clients when an item is added
* 3 points for updating the other tabs when an item is added

A point may be deducted each time you fail to follow the instructions as given. This includes submission instructions.

#### Notes

* Your code must pass JSHint with no errors or warnings using [this](https://gist.github.com/ProfAvery/c5db1692c457c526601c) [configuration](https://github.com/ProfAvery/node-box/blob/master/provisioning/files/jshintrc).
* Your code must be properly formatted. If you don’t know how to do this, use [JS Beautifier](http://jsbeautifier.org/).