CPSC 473 - Web Programming and Data Management

Spring 2015

Homework Assignment 6, due the week of March 23

In this homework assignment, you will convert your server-side Web Service API from Assignment 5 to use the Express framework and implement the client-side portion of the Rock, Paper, Scissors, Lizard, Spock game.

Implement the following changes:

1. Install the `express` module and add it to your web application
2. Add routes to handle each URL
3. Use the `json()` method of the Express response object to return results
4. Use the `express.static` middleware to serve HTML, CSS, and JavaScript for the client-side portion of the application
5. Build a client-side web interface to play the game
6. Use jQuery AJAX methods to access the Web Service API and update the page with the outcome of the game and current statistics without reloading the page

Submission

E-mail the following items to csuf.kenytt.net@gmail.com:

1. A link to a new GitHub repository containing your application
2. Screenshots showing your API in action

Tips

● Many of the techniques you use in this assignment will be directly useful for completing Project 1.

● At this point, completing the web application should be straightforward, but it may take longer than you expect. Be sure to allocate enough time.

● If you have not been working with a partner, now might be the time to find one.

● If you have a partner, be sure to include the names of both partners in your e-mail.

● Set the `Subject:` line of your e-mail to
`   [CPSC 473 - Section 1] Assignment 6`
or
`   [CPSC 473 - Section 2] Assignment 6`

as appropriate (Wednesday night is Section 1; Monday night is Section 2).

Note: if you do not use the `Subject:` line exactly as given above, one point will be subtracted from your score for the assignment.

Grading

This exercise is worth 10 points: 1 point each for steps 1, 3, and 4; 2 points for steps 2 and 5; 3 points for step 6.