Class **Extra Bonus Project (30 points)**

**Due date December 1st.**

*Note: This project is optional. Extra points will be received.*

**Detailed requirements:**
Use JavaScript or HTML 5 to finish the following requirements

1. Validate all the entries in your form. (5 points)
   - a. Check whether all required entries are filled correctly or not before the form is submitted. E.g., username cannot be null. If user fails to fill it, warn the user by showing red color text by the entry telling user it is required.
   - b. For state code, check whether it is consisted of numbers, if not, warn using red text.
   - c. For password, check the minimum length, if not, warn using red text.
   - d. For email, check whether it contains @ symbol.

*Notice* that you don’t have to verify the entries you don’t have in your project. But you have to verify the entries you have used.

2. Provide user preferred style design. (10 points)
   - a. You need to provide a trigger button or something else to the user who is visiting your website. When the user triggers it. Your CSS design may change.
   - b. It is a good way to prepare multiple CSS file, when user triggers it, you can replace the CSS files using JavaScript directly.
   - c. You can also change part of your CSS rules using JavaScript to overwrite original rules to realize this.
   - d. For the change, you can change the background color, the menu font, the size and etc. Also you can provide music options.
   - e. The criteria of evaluating depend on the way you trigger the change, the consistency after changing the rules, whether it is reasonable to change the rule and the effort you spend on the different design and effect of the change.

3. Dynamic effects on your website. (15 points)
   - a. You can add animations to your website. E.g., provide a rolling menu with special dishes on the top of the page or the side of page. E.g., the dynamic overlapping pictures in regal homepage: [http://www.regmovies.com/](http://www.regmovies.com/).
   - b. You can also provide dynamic options for the show picture. E.g., Ebay and amazon both provide several pictures to switch in order to provide a better show of the product, when you move your mouse on the small picture, the bigger one will show up in the large picture area. Check ebay: [http://www.regmovies.com/](http://www.regmovies.com/)
   - c. Do a hidden menu. A hidden menu is usually used to bring extra information or provide more functions to the web page. Check out GSU parking website [http://parking.gsu.edu/](http://parking.gsu.edu/) On this page, there is a red hidden bar on the left side for signing up mailing list and showing tuner field towing policy. Learn about how they did it. Can you do a hidden bar too?
d. There are also a lot of animations that you can add to your website. You can learn the great effects from the most successful websites and then try to embed them into your website as long as you make them consistent with your style and design.

4. Other JavaScript jobs that you need in your project. (10 points)
   a. You can also do some other jobs using JavaScript as long as you need them in your project. The points will be given according to the effort you spend and the effect of the code.

**Notice:**
You need to show all the work you have done when you submit them. List them in order that TA and I can know where to look at. Show them out when you present. Failing to do so may lead to a waste of points in the final score. Also this JavaScript project is based on the final project and the total score for this project is 30 points. Slipshod work on final project may also influence the grading on JavaScript project.

**Submission:**
Due date: till midnight (11:59PM EST) of **December 1st, 2014**.