**Advanced Web Development – Lab 0**

**Due:** The night before next class

**Grade: 20 points**

**Submission instructions:** Each question has a different submission method.

1. Subscribe to the discussion groups on blackboard. This will send you an email when questions are posted on the discussion groups. Participation in class is graded, I will look at both your participation in class and the discussion forums.

**Complete.**

1. Find the paper you want to present. Edit the schedule and list that paper there. If you cannot pick a paper now, then pick a date you would like to present.

**01-Mar-2016: Beck, K., Embracing Change with Extreme Programming, IEEE Computer. 32(10), p. 70-77, 1999.**

1. Pick a project group. Each group can have three members. Submit the names of your group members in the blackboard submission box or a text file.

**Kevin, Mary, and Raj: Kevin Kuo, Mary Snyder, Raj Patel**

1. Go through the HTML/CSS tutorial at Code Academy. There are several, I want you to complete Units 1-6 of <https://www.codecademy.com/learn/web> and show me some proof of completion. When you complete it, you will earn a badge which should show on the Code Academy profile. A screenshot of that will do. Feel free to go through the other tutorials. This is your opportunity to brush up and hit the ground running for this class.

**See files: “HTML & CSS Lessons Finished.PNG,” “Completed Skills.PNG,” and “Badges.PNG”**

1. Complete the 20 minute Ruby tutorial at <http://www.ruby-lang.org/en/documentation/quickstart/> .The tutorial first encourages you to use IRB (Interactive Ruby) prompt. Later in the tutorial you should plan to use an IDE/file editor. Chapter 4 in the book (‘Introduction to Ruby’) should also be read and practiced completely.
   1. In the Ruby tutorial, within the *say\_hi* method, the author checks if the instance variable *@names* is *nil*. Why is this check done? Is the check really needed in the *MegaGreeter* class as it is written? Why or Why not?

**This check for nil determines if the variable has a value. Yes, the check is necessary so the program will not print out a greeting with no name.**

* 1. In the *say\_bye* method, you use a concept called ‘duck typing.’ Duck typing is common in dynamic languages. Explain what ‘duck typing’ is.

**“Duck Typing” is a method of programming where the actual type of the variable does not matter, so much as the methods the variable supports. It is concerned with establishing the suitability of an object for some purpose.**

1. Attempt to install the environment we will use in class on your machines. The environment is Ruby 2.x, Rails 4.x, Rubymine (license key in on the blackboard). You can do these installs on Macs, Linux, or Windows. Linux/Macs are the preferred development environment). If you cannot install, please submit a small description of the problems you faced, otherwise say “I was successful.”

**I was successful.**