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**EE447/547 HW9 - Spring 2012**

Implement a Ruby on Rails “mini application” to collect team scores in a contest and display them in sorted order. You should be able to find a tutorial like [Getting Started with Rails](http://guides.rubyonrails.org/v2.3.11/getting_started.html). Use of the [Bitnami RubyStack](http://bitnami.org/stack/rubystack) is recommended to minimize install issues. Be sure to use the version with Rails 2.3 (not the Rails 3.2) if you want to match the text (and the example tutorial).

Do ONE of the following tasks (you may NOT submit something that you did for another assignment even if you exceeded the spec for the other assignment): Bonus (50% each, up to four more new (to you) tasks)

1. Extend the above to have team members on the RAILS assignment and use normalized tables with CRUD implemented for all tables.
2. Create a page which hosts a Java Applet and accompanying ruby or PHP script which gathers and displays the first two companies in the USA from the NorthWind Database. Create and submit a summary page that gives links to show the java source, Ruby/PHP script source and the actual page. Essentially, the applet should operate as a client talking back to the server using HTTP and invoking code on the server to get data for it.
3. Build a small demonstration web application using Yahoo services per the article on [RubyLearning Blog](http://rubylearning.com/blog/2008/04/25/yahoo-web-services-in-ruby/).
4. Build a small Web Application that collections information from the user and generates a .VCS file for download. [Reference material](http://www.devx.com/getHelpOn/10MinuteSolution/20508/1763/page/1) is available. This [file](http://www-ece.eng.uab.edu/dgreen/ee447/demo.vcs) is a modified file from Avis (no longer containing all of the original rental information) for exploration.
5. Create a [writeboard](http://www.writeboard.com/). Build a web-base report showing its features and discussing its use of Internet technologies that we have learned in the course.
6. Create javascript code to place a small version of a picture of you at the location of UAB’s School of Engineering using [Ovi Maps](http://api.maps.ovi.com/). See the Marker capability in the Ovi Maps API Developer’s Guide: Getting Started.
7. Create an AJAX demo that uses an accompanying ruby or PHP script to dynamically update a page with the information described in HW7 without a page reload.

**Visible Code Listings**

You should add links to copies of your source(s) (if not visible by “View Source”) on the initial data entry screen. Your source code should be viewable in the browser WITHOUT the need to download it first.

**Submission**

When you have completed the assignment, submit the URL of the report page as HW9 in Blackboard Learn. Be sure that either this page has links to all the required pages.

* Use the “Assignments” tool that can be accessed clicking on “More Tools” in the upper right of the class page of Blackboard Vista.
* For the Ruby on Rails assignment, submit a .zip file containing the application directory (with subdirectories: app, config, etc.)
* For the bonuses, submit the url of your assignment as text in the message part of grading assignment being sure to 1) include http:// in front of the URL (to make it a URL) and 2) check that this URL is a correct URL. If you are claiming a bonus, *please state that you are in the same submission text box*.
* The assignment is due at the start of class on the date noted on the syllabus. An automatic extension to 11:59pm of the same day is available by attending class that day.
* The web pages must not be modified after they are submitted for grading.

*Web Page:* http://www-ece.eng.uab.edu/DGreen/ee447/hw9.html [.](http://validator.w3.org/check?uri=referer)  
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