[UAB](http://main.uab.edu/) -> [ENG](http://www.eng.uab.edu/) -> [ [ECE](http://www.uab.edu/engineering/departments-research/ece) / [ECE Intranet](http://www-ece.eng.uab.edu/) ] -> [ [DGreen](http://www-ece.eng.uab.edu/DGreen/redirect/dgreen-internet.html) / [DGreen Intranet](http://www-ece.eng.uab.edu/DGreen/) ] -> [EE447](http://www-ece.eng.uab.edu/DGreen/ee447/) -> HW5

**EE447/547 HW5 - Spring 2012**

**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.

**Data Collection Application**

Create a prototype application that will collect log data from students on software project teams. The application will generate a “printable” confirmation of the report. The “File Save As” mechanism of the browser should be able to save this report page. This savable page should be validated HTML. You must use Ruby or PHP as your server-side scripting language. The information to collect (and the variable name used in the HTTP transmission) is:

1. FName: First Name (Julie)
2. LName: Last Name (Howard)
3. BlazerID: UAB ID
4. TelNumber: Telephone Number
5. Team Number (1–6)
6. Time being logged
7. % Analysis
8. % Design
9. % Coding
10. % Testing
11. % Other

When completing the form, users shall be required to supply all data items, picking a team number between 1 and 6, time in tenths of hours and percentage of this time in 5 categories. Store the information with a time stamp.

Create an additional capability to show all collected data thus far.

Demonstrate your ability to use CSS. Provide a style sheet for your application referring all pages to it. Supply a way to see the equivalent of your style sheet from the browser and a short discussion of your style choices.

Make sure submission works in both Firefox and one other browser (your choice which but state which one.) .

**Bonus - Validate data submitted on server side (up to 40%)**

Ensure that the data submitted is correct based on its context and to avoid XSS issues. Provide a report page elaborating the tests you did to prove this works.

**Bonus - Produce log information for this student (up to 40%)**

Show the all the information for this student (all log submissions) as well as the total times: analysis, design, coding, testing, other and an overall total time.

**Submission**

As previously, when you have completed the assignment, submit the URL of the application page as HW5 in Blackboard Learn. Be sure that either this page has links to all the required pages (except the page that occurs as a response to hitting a submit button.)

* Use the “Assignments” tool of Blackboard Learn.
* 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 the 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/hw5.html [.](http://validator.w3.org/check?uri=referer)  
Copyright (c) 2009–2012 David G. Green, All Rights Reserved  
Contact: [dgreen@uab.edu](mailto:dgreen@uab.edu)  
Last modified: 21 February 2012