Senior Project Proposal

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Network Computing

Objective

To create a means for First Year Experience Students to anonymously evaluate their Teaching Assistants online threw a secure web form (see page 3). And to store that information in a database and compile the results into graphs and spreadsheets that the Graduate Assistant and FYE Coordinator can review and print out.

Project Details

The Website will be located on the Dean of Student's web server. The primary coding style will be object oriented PHP and MySQL. I may also use JavaScript to perform some more interactive features. The site must be easy to update and maintain by the FYE Coordinator and the Graduate Assistant threw an online database driven interface.

The site will be divided into two parts, the part the student sees and the part the Administrator sees. The student site will be accessed by a user name and password provided to the students by their TA. Then they can go in and fill out and submit the form. The Administrator page will be accessed only by the GA and Coordinator. There, they can view the individual results or grouped results with the answers averaged. There will be numerous different graphs and tables generated by the data for them to review. This site needs to be functional and in use by the Fall 06 semester.

Project Goals

Student Page (6 points)
* (0 pt) Students are anonymous
* (1 pt) Students can only submit evaluation for their TA
* (2 pt) Students can only submit one evaluation total
* (0 pt) Students check radio buttons and input comments
* (1 pt) Student's TA is automatically filled into form
* (2 pt) Form is submitted over SSL

Login (5 points)
* (1 pt) Each Teaching Assistant receives a unique ID and password
* (1 pt) IDs are generated automatically
* (1 pt) IDs are automatically sent to TA via email
* (1 pt) Questions are stored in the database
* (1 pt) Questions can be added, deleted or modified easily

Administration Page (31 points)
* (0 pt) Only Coordinator and Graduate Assistant can view results
* (1 pt) Results page has semester totals

* (1 pt) Results page has list of all TAs
* (1 pt) Each TA has separate result page
* (1 pt) Each question has averaged answer
* (1 pt) Each question has average for all TAs combined
* (1 pt) Questions grouped into sections
* (1 pt) Each section has individual TA average
* (1 pt) Each section has total of all TA's average
* (1 pt) Overall score for each TA individual
* (1 pt) Overall score for all TA's averaged
* (2 pt) Results formatted in neat Excel like look
* (3 pt) Results shown in graph
* (1 pt) All results generated on the fly
* (3 pt) Results automatically update via AJAX
* (4 pt) Graphs can be viewed in multiple ways (ie. Pie, Bar…)
* (4 pt) Results can be exported to Excel
* (2 pt) Results can be exported to PDF
* (2 pt) Results page is SSL

Coding (9 points)
* (0 pt) PHP and MySQL
* (2 pt) OO PHP and database access
* (3 pt) JavaScript
* (1 pt) PHP database class
* (2 pt) Perl CGI
* (0 pt) CSS and HTML
* (1 pt) Sessions

Other (4 points)
* (4 pt) Same thing for FYE Faculty

Total points possible: 55

Grading Scale
A $\Rightarrow$ ($\geq$ 40 pt)
B $\Rightarrow$ (37 pt – 39 pt)
C $\Rightarrow$ (24 pt – 36 pt)
D $\Rightarrow$ ($\leq$ 23 pt)

My Final Results
Points Gained: 32
Extra Gained: 13
✔ (3 pt) Using NMU IN instead of TA ID and Password
✔ (1 pt) TA cant submit own evaluation
✔ (3 pt) Navigation Bar Dynamically Changed threw web
✔ (2 pt) Used XML

- ✔ (1 pt) XML Database Class instead of Associative Array
- ✔ (1 pt) Evaluation only accessible during certain time
- ✔ (1 pt) Table filtering by blocks or last name search
- ✔ (1 pt) Can copy questions to a new semester

Total Score: 45 out of 55 = A