We have been learning a number of web technologies this semester; client side and a server side. This is the opportunity to demonstrate your understanding of how these technologies work together in designing a practical web site. You will work with a partner on this project.

**Part I:**

You are designing a web site where registered students can log in and take a quiz (will have to submit a design to me by the due date).

The questions must be taken in random order from a MySQL Database so that every time the quiz is taken, a new order of questions (and new questions) will appear.  You need a database table for the questions.

You also need a database table for student information including user name and password as well whether the person has taken the quiz or not and if they have the grade they got on the quiz.

A student must enter a username/password to be able to take the quiz.  You will need to check the password against a database table containing this information.  A person is only allowed to take the quiz once, so you must keep track of that in the table.

The quiz should have 10 questions with equal weight.  The answer will also be carried on the database.  You can decide whether you want to use true false or multiple-choice questions.

When the students submit the quiz, it should be graded and a grade should be displayed on the page for the student to see. The grade also should be written to the database table. User should be able to log out.

**Part II:**

What can you add to enhance this site? You and your partner have to come up with a significant feature to improve this site. Please run your idea by me before you implement it.

**Part III:**

It is your responsibility to divide up the work with your partner. You are responsible for turning in the project regardless of your partner's shortcomings. You will fill out a short feedback form for me at the end of the process about your experience working with your partner. This feedback will help me in grading your project fairly for you and your partner.

You will be graded on:

* Design of your project, on paper or using any tool on the computer. Design should be elaborate, specific to the point, and should include number of files, number of tables for the database, number of columns for each table etc.
* how you have followed the naming conventions throughout the code
* documentation and indentation of your code
* efficient design of your database
* your effort in looking up things online and debugging your code (problem solving and collaborating with your partner)
* Formatting your pages using CSS, consistent formatting throughout the site.
* randomness of your quiz questions (more questions you have in your database, more random the quizzes will be)
* logical flow of your entire program and the ease of using your ‘quiz site’
* Additional significant feature on the page, demonstrating your knowledge of web technologies, to make your page unique.
* Your honest feedback about your partner submitted along with your project.
* **Intermediate Check:** 
  + **November 29-30; beginning of the class: Submit the design of your project**
  + **December 3-4: Should have a framework, database, and tables in place**
  + **December 6 -7: Should have most of the code implemented. Should have debugged the errors and the project should be in working condition**
* **Submit the project on December 9, by 11:55pm. (Submit it on google drive and put the link to the drive on moodle if the folder is too big).**

Even though this is a basic system, programming always has surprises and unexpected errors. You should be able to debug your code with your partner to demonstrate your debugging skills. I would recommend that you start early and spend some time on it each day outside the class. How well you work with your partner is a part of your grade so learn to collaborate and get along. Make sure you understand the code that you write; plagiarism will be dealt with according to IMSA's plagiarism policy. Submit your zipped folder, saved under your and your partner’s name, on moodle by the due date. **No exceptions**.

**Rubric:**

Part I working correctly: 80%

Part I and II working correctly: 90%

Part III and meeting all the intermediate deadlines: 95%

Relevance and difficulty level of Part II, your debugging skills and efficiency/organization of your code: 100%