**Project 04**

**CS2803 - DWD**

**Fall 2016**

For this project you are to build a class quiz application based on the quiz application that you created in “project03”. This class quiz application will be used by an elementary school teacher and the students in his/her class (10-16). The class quiz application should provide the following functionality.

1. The home page should allow the user (teacher or student) to select access to his/her account.
2. This selection should be followed with password entry and verification.
3. If the user chooses a student’s access…
   1. The user is given a choice of the subject of the quiz they wish to take.
      1. Math
      2. Science
      3. History
      4. English
   2. The appropriate 5 question quiz is given (“project03”)
   3. The number of wrong and right answers is recorded for later reporting
   4. Upon completion of the quiz, the user is
      1. Congratulated
      2. Given a choice to take another quiz
         1. If yes, the user is returned to “choice of subject” page
         2. If no, the user is
            1. Thanked for participation and encouraged to return soon
            2. Logged out
            3. Returned to the home page
4. If the user chooses the teacher’s access…
   1. The user is given five choices
      1. Manage quiz questions and answers (“qaManagementHTMLPHP.php”)
         1. Enter new questions and answers
         2. Query existing questions and answers
         3. Delete questions and answers
         4. Update questions and answers
      2. Manage student roll
         1. Add a new student to the roll (name and picture)
         2. Delete a student from the roll
         3. Update a student’s name and/or picture
      3. Take a sample quiz (“project03”) 🡪 (See #3 above)
      4. View quiz score data
         1. Bar graph of all students all subjects
         2. Bar graphs of each student all subjects
         3. Bar graphs of each subject all students
      5. Exit
         1. User is logged out and returned to home page

This project is the culmination of what you have been exposed to in this class. It must use HTML, CSS and Javascript. It must look good (subjective) and function well. It does not have to be responsive to mobile devices. This project must use PHP to query your MySQL database located on the class’s Cloud9 server. In addition, this project must use AJAX and jQuery is some way. Either SVG elements or the D3 framework must be used to generate the charts. When you turn in your work on TSquare, please submit a report that indicates one part of your project where and how you used each of the following…

* HTML
* CSS
* Javascript
* PHP
* MySQL
* AJAX
* jQuery
* SVG and/or the D3 framework

**You should start with a hand written map of your project. This map shold indicate screen flow as well as data flow. Please submit an image of the map when you turn in your project. It does not have to be perfect. However, it does have to indicate that you planned your project.**

**To turn in your page:**

Make a “project04” folder in your Cloud9 folder. Within that folder make “html”, “css”, “img”, “php”, “js” folders and any other folders that are needed. I will be looking in your “project04->html” or “project04->php” folder for your “home.html” or “home.php” page. Place all supporting files in their appropriate folders. Import your .css and .js files into your .html and .php files. Make the appropriate data tables in your MySQL database. In addition, download a copy of your home.html or home.php file and turn it in on TSquare before the project deadline.

|  |  |
| --- | --- |
| **Grading rubric is forthcoming.**  **Be sure to implement all of the functionality indicated above.** | |
| **Mandatory Items** | **Points** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |