

Assignment 2

Deadline	Anytime before Sunday 18 Oct 2015, time 23:59
Evaluation	20 marks – which is 20 % of your final grade (+3 bonus marks)
Late submission	2% per hour (or fraction of hour) it is late
Teams	The assignment can be done individually or in teams of at most 2 students: different teams having “suspicious” similar solutions will get 0 marks.
Purpose	Solving this assignment will help you practice with PHP, MySQL, JavaScript, CSS and HTML.

This assignment has three parts.

Part 1. [5 marks] Presentation of a topic (as per schedule on Stream).

Part 2. [15 marks] For this part you will have to design and write code to create a simple application that allow user to take a quiz about PHP after they have logged in.

Part 3. [3 marks-bonus part] Some enhancements of Part 2 will be implemented.

Part 2 DETAILS. You will write an application to create a website that provides the following features to its users:

- a) A sign-up process
- b) A login form
- c) A log out facility
- d) A cancel account facility
- e) User profiles
- f) A member directory
- g) A take a quiz facility

The application should be called Quiz Fun and to access it the user should use the address *localhost/a2/index.php*

The form in Figure 1 should be displayed as a response to this action.

- If the user presses the Home button the user can see the quiz in Figure 4, but it cannot take the quiz (no interaction allowed); only user who are logged in can take the quiz.
- If the user presses the Sign up button the form in Figure 2 is displayed and the user can choose a username and a password.

These should be stored in a table called **members**, which should be part of a database called **db339**. The database should be created using MySQL (see **Chapter 8 and 10**). For marking purposes please use exactly the name **db339** for the database, use **a2user** for the username and **a2339** for the password.

The table members will have three fields: username, password (encrypted-not clear text) and score.

A second table **profiles** will have two fields: username and a text field containing the text entered by the user when it presses Edit Profile button (see Figure 3). Note that these tables should be created before the application starts. In order to achieve this write the definition for these tables in a file called setup.php (see Nixon, Example 26-3, page 659)

After the user has signed up she/he is invited to log in.

- If the user presses the log in button (assuming has signed up) the form in Figure 3 is displayed.
- If the user presses
 - Home –it takes her/him back to this form.
 - Members-it displays the list of all members and their scores.
 - Quiz-it displays a quiz (similar to that in Figure 4)-you should design your own quiz-it can have up to 8 questions (so it can fit inside a page) and can have questions about any topic covered in 159.339 this semester. When the user presses Submit button the score achieved should be displayed and store in the member table.
 - Edit Profile—A textarea should be displayed and allow the user to enter text, that will be stored in the profiles table.
 - Unsubscribe—the user should be removed from the database, logged out and some message letting the user know that the request was processed should be displayed.
 - Log Out—The user should be logged out and the form in Figure 1 displayed.

NOTE: You can use any picture you want, different style in your css file but you should use **HTML's canvas** and **JavaScript** in your solution.

You should **write a short report** including:

- i) The order in which your files should be used
- ii) For each file included in your solution a single phrase describing its purpose.
- iii) Four screenshots of your application when running.

Marking for part 2:

Correct and complete implementation of points a) to g) 2 marks each

The report 1 mark

Part 3 DETAILS.

The following enhancements to Part 2 will be implemented:

- a) [1 mark] After the user has submitted their answers, a more helpful feedback will be provided to the user (for a possible type of feedback see <http://www.landofcode.com/java-quiz/> or any of the quizzes at <http://www.w3schools.com/quiztest/quiztest.asp>)
- b) [1 mark] The quiz in Part 2 will be augmented to have 20 available multiple choice questions, from which 5, chosen randomly, will be displayed every time a user choose to take a quiz.

c) [1 mark] Assuming that a user takes several quizzes, his/her score should be the maximum achieved.

If you solved this part 3 mentioned this in the report and add a phrase describing each subpart implemented.

Put all your file into a folder, call it a2, compress a2 into a2.zip file and submit your **a2.zip** file via Stream.

Please do not use RAR

Miscellaneous:

1. For maximum marks try to use the style and constructs recommended in lectures and Nixon's book (see Chapter 26).
2. If you have to choose between code efficiency and clarity of algorithm, clarity will give you more marks.
2. Make sure that your solution uses PHP 5.6.8 and can be tested using XAMPP.
3. In case I cannot run your solution I will ask you to come and demonstrate it on your computer; In case you cannot demonstrate it the mark is 0.
4. Write YOUR FAMILY NAME first, YOUR ID NUMBER, assignment number, what the program does at the beginning of every file you include in your solution.

If you have any questions about this assignment, please ask the lecturer before its due time!

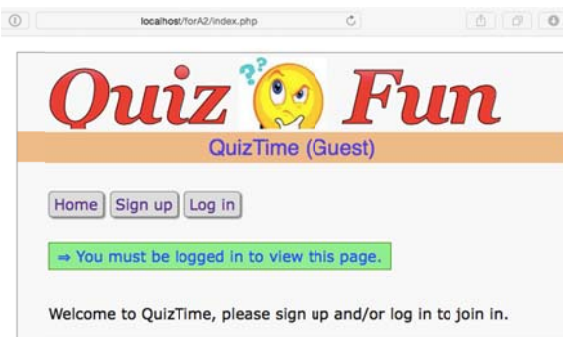


Figure 1



Figure 2

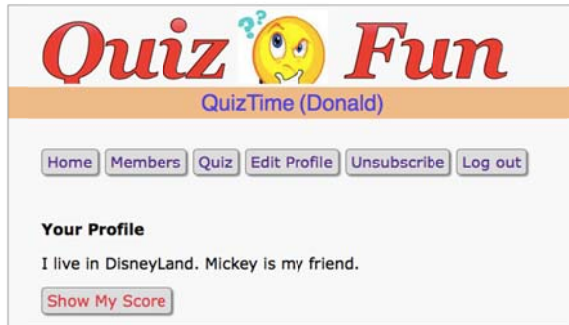


Figure 3

PHP Quiz

The PHP programming language is a(n)

- ☐ procedural language
- ☐ object oriented language
- ☐ functional language
- ☐ scripting language

The PHP language is widely used because

- ☐ is easy to learn
- ☐ is similar to C language
- ☐ it works with HTML and databases
- ☐ all of the above

One of the PHP drawbacks is:

- ☐ it has no standard
- ☐ it needs special IDE
- ☐ it is too complex
- ☐ is platform dependent

The PHP variables are

- ☐ strictly typed
- ☐ untyped
- ☐ dynamicaly typed
- ☐ statically typed

To find if a variable has beed defined the function to use is

- ☐ is_defined()
- ☐ isset()
- ☐ has_value()
- ☐ all of the above

Submit your answers for this quiz

Or clear the answers to start again

Figure 4