

Lab 3

Deadline: 4 Oct 2017

Note that the following files are given: “objectives.html”, “login.html” and “test.txt”.

- (a) First, write a page called “index.php”. In the “index.php” page, the user will be checked to see whether he/she has been to this page before. If so, the user will be redirected to the login page “login.html”. If not, the user will be redirected to the page “objectives.html”. Note that you can assume the server will create a cookie containing the student name during his/her first visit.
- (b) The text file “test.txt” is a password file. Currently, there are four lines representing four valid password pairs. For example the first line “school123,1A19,45678” means that the school code is school123, the student name is 1A19 and the password is 45678.

In the login page “login.html”, after the user click on the submit button, the form data will be sent to “verifyLogin.php”. In this “verifyLogin.php” page, the three user entries “school code”, “student name” and “password” will be checked and see whether they match to one of the valid password pairs in “test.txt”. Note that, you should not assume there are only 4 valid pairs. If they do not match, the message “Access denied” as shown in Figure Q1a will be displayed. If they match, the following will be done:

- If it is the first time the user goes to the page, a cookie called “studentName” will be created to store the “student name”;
- A cookie called “date” will be set to contain today’s date. Note that the php code to get today’s date is date(“d”) ;
- A cookie called “month” will be set to contain today’s month. Note that the php code to get today’s month is date(“m”);
- A display as shown in Figure Q1b will be shown to the user. Note that the user’s “student name” is shown at the top of the page as “Welcome, 1A19” for the student “1A19”. Also, below the article to be read, there are three multiple choices questions for students to answer. After the student finishes answering the three questions and click “Hand in your answer”, the form data containing answers to these three questions will be submitted to the page “answers.php”.

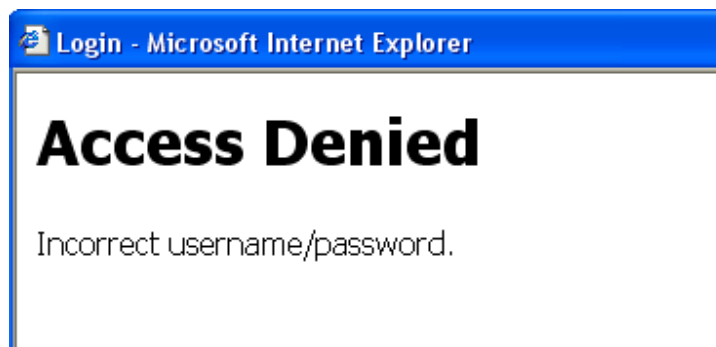


Figure Q1a: If the user entries in login.html are not correct, the “Access Denied” message will be displayed by verifyLogin.php

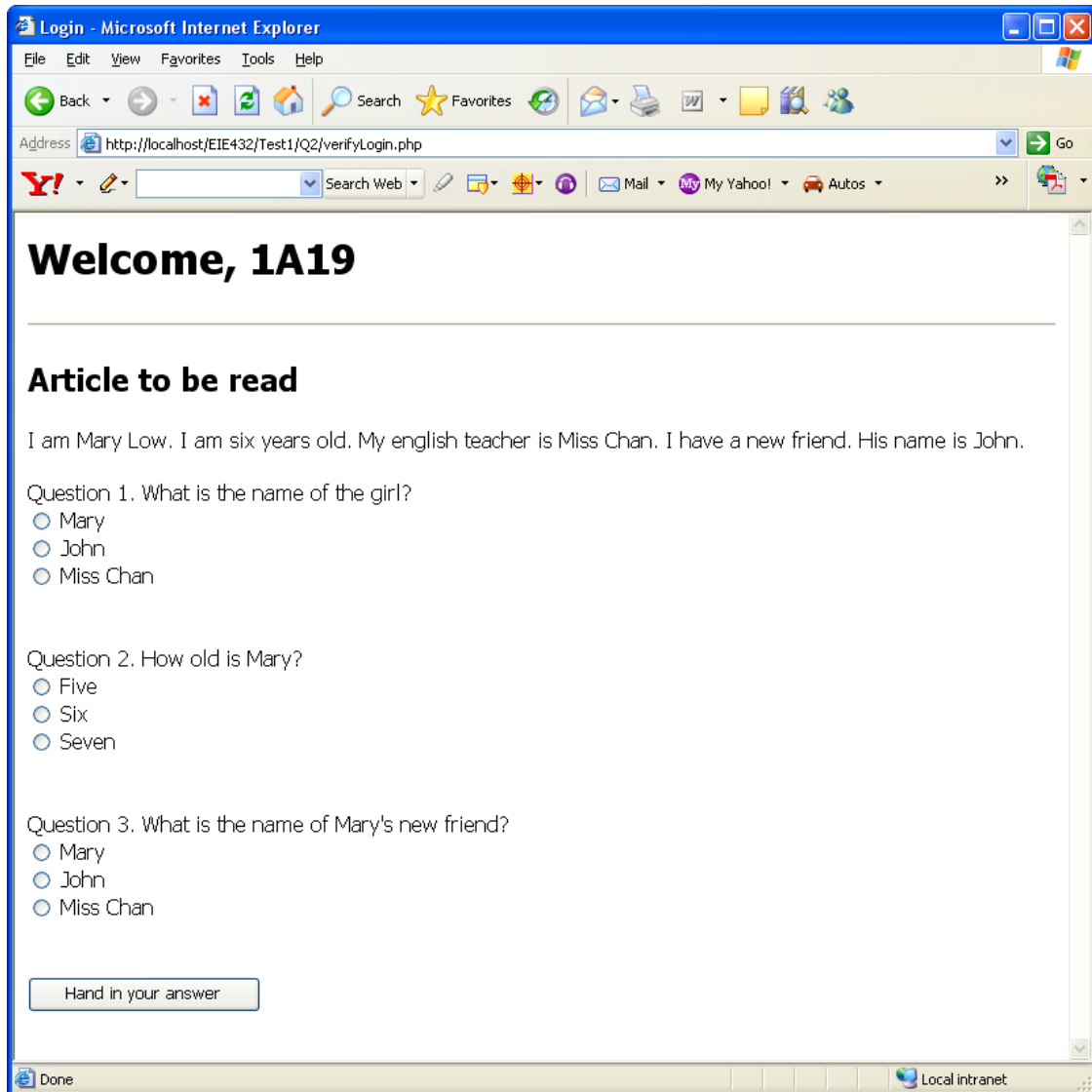


Figure Q1b: After the user successfully login, the article to be read together with 3 multiple choices questions are shown.

(c) In the file "answers.php", it will first check whether there is a session data containing the student's name. If not, a message "Please go to login page first" will be shown as in Figure Q1c. Otherwise, it will display the student's name as shown in Figure Q1d. Note that the student's answer will be saved into a file called "1A19_08_10.txt" as shown in Figure Q1e. The first part "1A19" is the student's name, the second part "08" is today's date and the last part "10" is today's month. After the file is successfully created, the user will be log out automatically by the system. Thus, if the student "refresh" the page "answers.php", the display in Figure Q1c will be shown. Note that the student can only submit the answer once every day. Say on the same date "8 October", the student "1A19" attempts to submit the answer second times. After this student clicks "hand in your answer" and calls to "answers.php", a display shown in Figure Q1f will be shown.

Complete "answers.php".

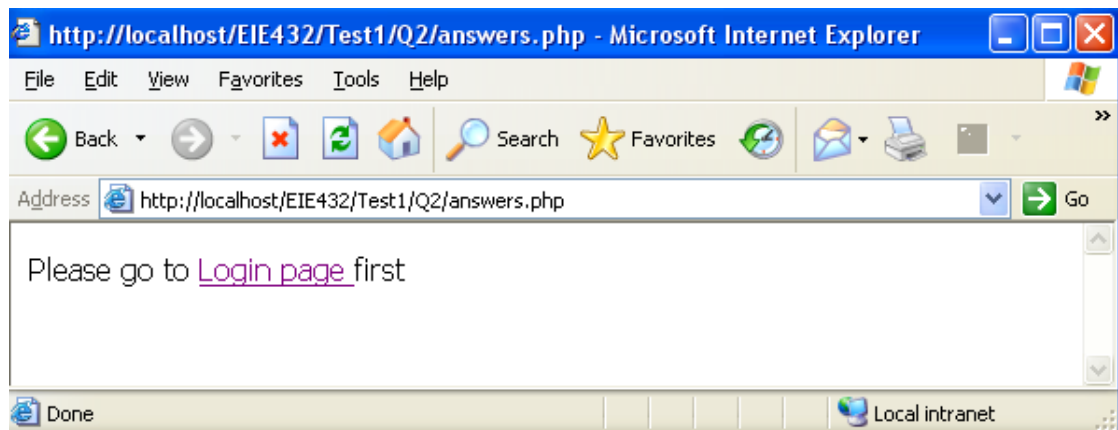


Figure Q1c: If the user goes directly to the page answers.php without going to the page “verifyLogin.php” first, the message “Please go to Login page first” will be displayed.

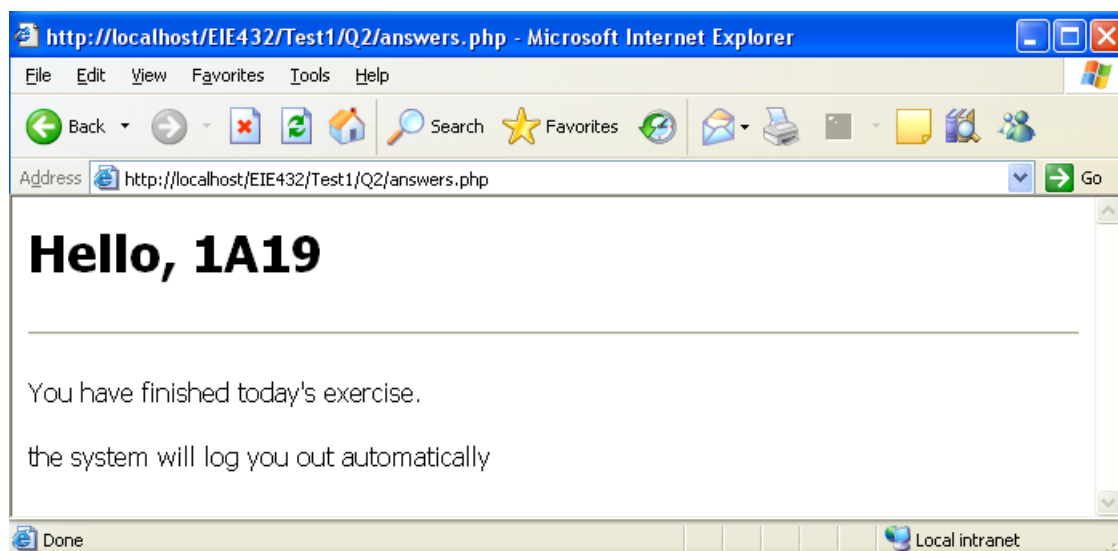


Figure Q1d: If the user “1A19” successfully finishes the exercise, the message “You have finished today’s exercise” will be displayed. The system will log out the student automatically.

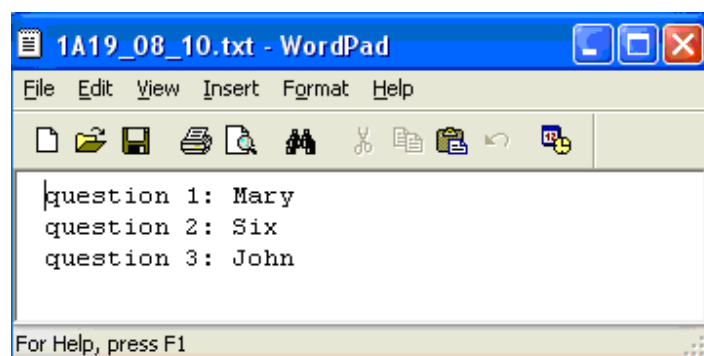


Figure Q1e: The file created by the server to store the three answers submitted by the student “1A19”. Note that the filename contains today’s date information. Assuming today is 8th October, the middle part “08” is the date while the last part “10” is the month.

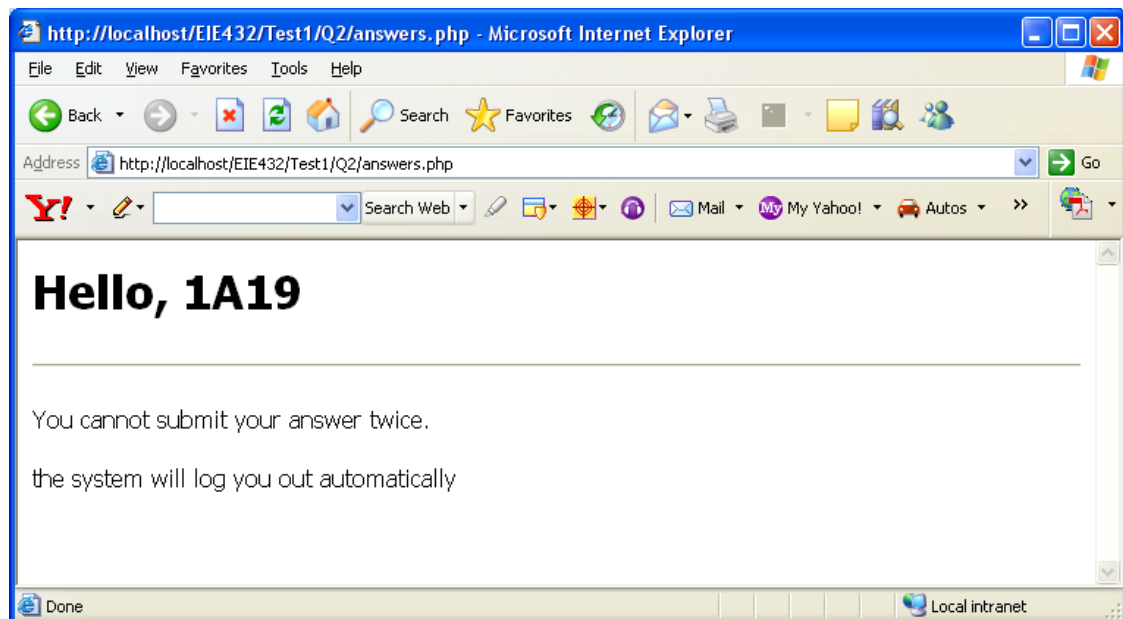


Figure Q1f: If the student “1A19” attempts to submit the answer more than once in a day’s time, the message “You cannot submit your answer twice” will be displayed. At the same time, the system will log out the student automatically.

List of some PHP functions

| | Descriptions |
|---|--|
| bool isset (\$var) | Determine whether a variable is set Returns TRUE if <i>var</i> exists; FALSE otherwise |
| string date("d") | Returns day of the month, 2 digits with leading zeros, i.e., <i>01</i> to <i>31</i> |
| string date("m") | Returns numeric representation of a month, i.e., <i>01</i> through <i>12</i> |
| resource \$handle = fopen("info.txt", "r"); | To open a file for reading |
| resource \$handle = fopen("info.txt", "w"); | To open a file for writing |
| bool feof (resource \$handle) | Returns TRUE if the file pointer is at EOF or an error occurs; otherwise returns FALSE |
| bool file_exists (string \$filename) | Checks whether a file exists. Returns TRUE if the file specified by <i>filename</i> exists; FALSE otherwise. |
| int fwrite (resource \$handle, string \$string [, int \$length]) | Writes the contents of <i>string</i> to the file stream pointed to by <i>handle</i> Returns the number of bytes written, or FALSE on error |