I3302 E
Web Development Server Side
Session 2

Final Exam
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Duration : 120 min
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Note: For MySQL, use the "prepared statements".

Problem I (10 pts) [Associative Array, File]

Write a PHP function **save($info)** which takes an associative array as parameter and writes this array in a text file **courses.txt**. The associative array is in the following form:

$info: ($name=>$run: ($credits=>$details: ($days=>[VALUE], $maxnbh=>[VALUE])))

Each line in the text file must be in the following format:

For example, if the PHP course has 4 credits during the days Monday and Wednesday (MW) with 50 hours, so in the text file you should write the following line: **PHP ;4 ;MW ;50**

Problem II (10 pts) [String]

Write a PHP function **createMessage($years)** which takes as parameter a string consisting of 4 characters that represent two years, *for example: 1718 represents the year 2017 and the year 2018*. This function returns the following message:

The academic year 20xx-20xx

For example, if $years = ''1718'', the function returns: The academic year 2017-2018

You must use the **substr** function to extract the characters in the string.

Problem III (10 pts) [Directory, File]

Write a PHP function **fileExist($path, $id)** which takes as parameter a directory and an identifier (*ex: 16*). The function checks if the directory passed in parameter contains a file in format **.pdf** whose name is the identifier (*ex: 16.pdf*).

If the file exists, the function returns *true* otherwise returns *false*.

Problem IV (10 pts) [PHP classic]

A palindrome is a string that is read in the same way from left to right and from right to left. *For example, "Laval" and "Esope reste ici et se repose" are two famous palindromes*.

Write the function ''palindrome'', which ignores the case (lower/upper), accents and spaces; this function takes as a parameter a string and checks whether this string is a palindrome (returns *true*) or not (returns *false*).

Problem V (13 pts) [DB]

We consider the database ''Youtube'' containing the table ''Client'' with the following attributes:

user(varchar(50)),password(varchar(100)), name(varchar(50)), email(varchar(50)), type(varchar(10), isConnected(INT(1))).

The attribute "type" can be: music, movies, kids, tutorial, ...

The attribute "isConnected" can be **0** i.e. the user is not connected or **1** if it is connected.

1- Write a PHP function **helloUser($user, $pass, $dbserver, $dbusername, $dbpassword, $dbname, $tname)** which takes as parameter the user name *$user* and the password *$pass*, and also the data needed to connect to the database (*$tname* is the name of the table). The function connects to the database to check if the user exists. In this case, it returns **1**, if not so it returns **0**. If the connection will not be established it returns **0**. If the user exists, the function updates the attribute isConnected to **1**. The function must do the necessary to allow the user to navigate safely in all pages of the website.

2- Create a PHP page ''display.php'' that allows a connected user to display to him a table in HTML containing the name and email of other connected users who watch the same type of video as him. The user could view this page after he is connected.

Best Wishes