

# Web applications development CAA3

## General comments

Please provide all information that you find necessary in your answers.  
Assignments can only be assessed by the information contained in them.

This assignment is an individual work. It will not be evaluated if parts of it are copied (from any source) or are too similar to other students' assignments.

Note: for this assignment you will need access to a system with MySQL, PHP and Java (and Tomcat or similar to test exercise 4)

## Delivery format

The following files (if possible in a single ZIP or tar.gz that contains them all):

- PDF or OpenOffice document with the answers to Question 3
- PHP files for exercises 1 and 2
- Java source file(s) and necessary libraries

## Exercise 1 (20%)

Write a PHP file for a website which should perform the following tasks every time it is accessed:

Open a text file from disk (located in the same directory as the PHP file) with the following content:

```
word1:word2:STRIKE:word3:BOLD:word4:ITALIC:word5:word6
```

The screen output is the same set of words, but separated by commas and applying the following operations:

- Convert all the words to CAPS.
- If the word STRIKE is found, strike out the next word (and don't write the word "STRIKE" on screen)
- If the word BOLD is found it must not be written on the screen but the next word must be written in bold.
- If the word ITALICS is found it should not be written on the screen but the next word must be written in italics.

The output should then look like this:

```
WORD1,WORD2,WORD3,WORD4,WORD5,PALABRA6
```

## Exercise 2 (30%)

Consider a MySQL table with the following structure:

Clients					
Name	Surname	Phone number	Postcode	Age	email

Write a PHP file that shows an HTML table with the following format:

Clients				
Surname, Name	Phone number	Postcode	Age	Email
Almazán, Abel	654321000	08290	27	<a href="mailto:aalmazanf@uoc.edu">aalmazanf@uoc.edu</a>
Mars, John	654321001	08027	29	<a href="mailto:jm@ftacademy.org">jm@ftacademy.org</a>
Lloyd, Nick	654321002	28010	31	<a href="mailto:nick@hotmail.com">nick@hotmail.com</a>
...	...	...	...	...

The output must meet the following requirements:

- only those customers older than 28 years should be displayed
- only those customers whose postcode begins with "08" should be displayed
- The "email" column should show hyperlinks to the email addresses.

(It is recommended to introduce a few records in the database, some that meet the requirements and some that don't).

## Exercise 3 (10%)

Answer the following questions briefly (about PHP programming):

1. What is the implicit vector that we should consult to obtain the parameters received via GET and POST requests?
2. What if we only want to see the contents of the fields of a form with "method = GET", which vector should we use? (Assuming we do not want to obtain parameters sent by POST in this vector).
3. We have a PHP file on a web server that can be accessed by different names (e.g. <http://www.example.com/file.php> and <http://example.com/file.php>). Write the PHP code to display in the browser the hostname that was used to access the file.

## Exercise 4 (40%)

We want an online application that publishes our blog in [www.technorati.com](http://www.technorati.com) given the following input parameters:

([Http://www.technorati.com/developers/ping/](http://www.technorati.com/developers/ping/) service description) →  
DEPRECATED, TECHNOCRATI DOESN'T USE PINGS ANYMORE

Blog Title  
Blog URL

As you can see, Technorati uses the XML-RPC protocol to receive requests for publishing content.

Write a Servlet that allows to post a blog given these input parameters. The Servlet will display on screen the message returned by Technorati.

(Note: there are open source libraries that can help a lot, such as <http://ws.apache.org/xmlrpc/index.html>)