

Web applications development

CAA1

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.

Delivery format

PDF or OpenOffice document with the answers

Exercise 1 (20%)

We have an HTML form with the following characteristics:

- Uses the POST method
- Requests the user's name and surname
- The URL in the "action" attribute is `http://www.example.com/action/saveData?source=1`

1. Does it make sense to use this URL as the action of a form that uses the POST method?
2. Which changes would you introduce to improve the form and the request?
3. Suppose that the form would also allow the user to select a picture and send it along with the name and surname. Which attribute and element should be added to the `<form>` item?
4. Write the HTML code that would define the form after all these changes.

Exercise 2 (30%)

Consider the following URL:

`http://www.example.com/action/saveData?source=1&name=Nombre&surname=Apellido`

1. How can we make this request without using a browser? Write the complete request.
2. Test the request in point 1 on a computer connected to the Internet. Which status code did the server return? What does this status code mean?
3. If you decide to temporarily move your application to another domain, what status code should your server return? What if you move it permanently? How important is it to correctly choose between these status codes?

Exercise 3 (20%)

Suppose you are implementing a web hosting service to host dozens of domains.

1. How can you provide the service if you have only two public IP addresses available?
2. Using Apache, how can you limit the bandwidth used by each client? And how can you serve Ogg files in streaming mode?
3. Which configuration option should you include when compiling Apache so that you can offer Secure Socket Layer for certain requests?

Exercise 4 (30%)

You have installed an Apache server and want to configure it.

1. What should you do so that, in case of a 404 HTTP status code, our server shows the contents of the file `/var/www/error/notFound.html`, considering that `/var/www/` is your DocumentRoot? And in case you want it to show the file `/home/fta/errors/notFound.html`, which is not in your DocumentRoot?
2. Could we configure our Apache to listen to two or more ports simultaneously? How?