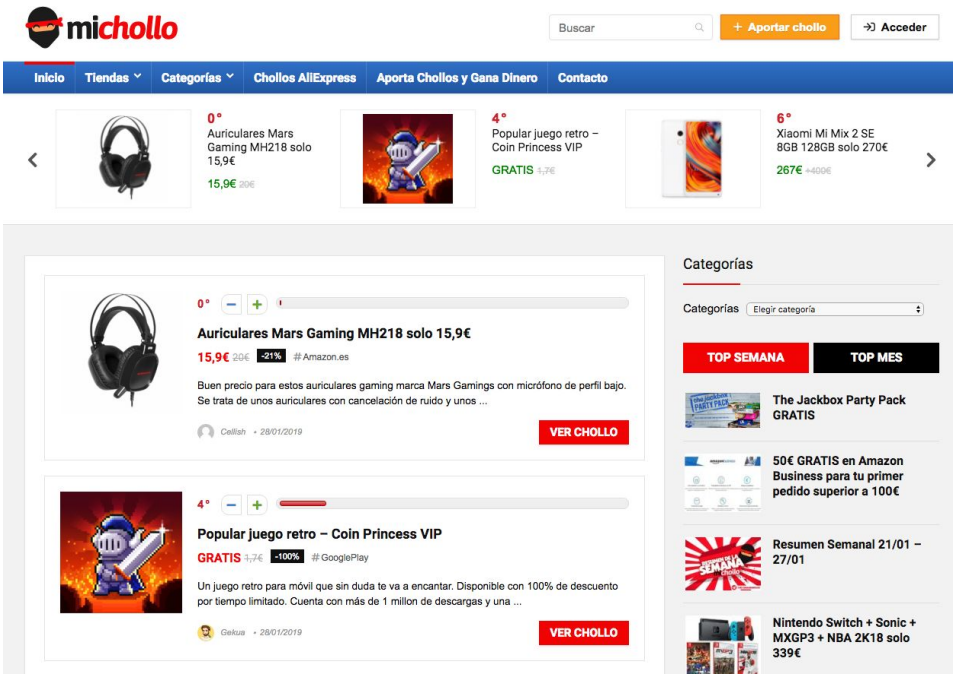
INTERNET PROGRAMMING

2018/2019 Course

Computers Science Degree: Software Engineering

Web Application Project Statement

Deadline: ~~March 29th, 23.55h~~ April 14th, 23:55



The project that the students must implement for the course 2018-2019 is based on the web application that is available here: https://michollo.com/ Basically, the students must implement a web application using that web as a reference for the core functionality, obviously, by designing their own user interface and configuration.

The project is divided into two different phases (called Activities) that will be delivered by the students along the semester. The first phase is related to the units 1 and 2 of the subject whilst in the second phase, the students must apply the concepts studied in units 3 and 4.

This document establishes the requirements (minimum and extra) for the first Activity of the project.

Activity 1: Web App using HTML, CSS, Servlets & JSP

Activity 1: part 1 of 2 of the app web project of the subject.

MINIMUM REQUIREMENTS

In case of all these minimum requirements are met, the grade will be at least 6. This grade can be improved with extra functionality.

But, in case of any of these minimum requirements are not met, the grade will be 3 with no chance of getting a better grade with extra functionality.

The minimum requirements are divided into non-functional and functional.

Non-functional requirements:

1. HTML & CSS are valid. Only cannot be valid due to JSP issues, never due to a misuse of HTML & CSS.
2. Security: the web app properly manages security issues using the concepts learned in theory and labs. “Properly” means that communication between client and server is ENCRYPTED, user cannot see, edit or delete any information of other users (directly or using any browser developer tool). They only can see the information that other users have shared specifically with them.
3. Good practices: web app code follows all the good practices and patterns that have been taught in the subject.

Functional requirements:

1. Any person can register as user of the web app, edit, at least, her email and her password and delete her account at any moment. This requirement will not be met if users cannot see the information previously recorded for their data when they are updating their profiles so that they must fill in everything again.
2. Any user can create, see, edit and delete a “chollo” that contains, at least, a title, a link to the product and a description. This requirement will not be met if users cannot see the information previously recorded for a “chollo” when they are editing it so that they must fill in all the “chollo” information again from scratch.
3. Any registered user may add or remove a Like for a “chollo”. ~~The like may be only removed if the user has previously added a like for the chollo.~~ The system must provide

an option for showing the “chollos” sorted by number of likes and a quick access to “chollos” with a minimum number of likes.

4. Search: a user can search “chollos” typing the words she’s looking for either in the title or in the content.
5. “Sold out” products. A user may change the state of her “chollos” as “sold out”. In that case, the chollo will still appear in the web page, however, it will be shown in a different format to those that may be still bought. The application should allow users to filter in order to show just “chollos” that may be still bought (in other words, hiding those that are “sold out”).

EXTRA REQUIREMENTS

By implementing the extra requirements, the student may obtain the extra 4 points to reach the maximum grade of 10.

Each extra can add certain quantity (see each one for details) to the final grade of the project.

1. Categories management: the web app manages also categories for the “chollos” (up to 0,75 points):
    1. Categories Management (CRUD).
    2. Add one or more categories to a “chollo”.
    3. Delete one or more categories from a “chollo”.
    4. Quick access to “chollos” with the same category (for example, offering a menu of categories in some part of the page)
2. Shops management: (Up to 0,5 points)
    1. Shops Management (CRUD).
    2. Add one shop to a “chollo”.
    3. Change the shop for a “chollo”.
    4. Quick access to “chollos” offered by the same shop (for example, offering a menu of shops in some part of the page)
3. Adding comments for a “chollo” (up to 1 point):
    1. A user may write a comment for a “chollo”.
    2. The comment may also have a punctuation between 1 and 5 (stars).
    3. The comments for a product could be filtered by punctuation (number of stars).
    4. The “chollos” may be sorted by punctuation.
4. Advanced search: a user can search “chollos” typing the words that she’s looking for and then filter her search results by: (up to 0,60 points).

    1. Categories. (up to 0,15)
    2. Shops (up to 0,15)
    3. Comments (up to 0,15)
    4. Range of prices (up to 0,15)
5. Related “chollos” (Up to 0,80 points)
    1. When the user is watching the details of a “chollo”, a list of related “chollos” are presented.
6. Top week and Top month (Up to 0,75 points)
    1. A section must be always visible where the 5 “chollos” with more votes of the week or of the month may be observed.
7. Top month users (Up to 0,75 points)
    1. A section must be always visible where the 5 users with more “chollos” of the month may be observed.
    2. This section should also show the top 5 users with a higher average of comment stars for their “chollos”.
8. User and “chollos” image management (CRUD) (Up to 0,50)
9. Sort by expiration date (up to 0,60 points).
    1. The “chollos” may have an expiration date.
    2. They may be sorted according to the expiration date proximity.
10. Any other functionality that the student could justify that adds significant value to the project. (Up to 1 point depending on its complexity)
11. **Extra requirement added the 2th of March**: A user may only remove a Like for a chollo if he had previously added a Like for the chollo (Up to 0,75). This requirement was initially established as a minimum requirements that has been moved to extra ones.

FAILS TO BE AVOIDED

Some situations can punish your final grade up to 1 point each:

1. Unnecessary repetition of code in HTML, CSS, servlets, JSPs,...
2. Non controlled error pages
3. Content that breaks outside of its bounds
4. Extra functionality that seems to be available but does not work. For example:
    1. Facebook or Twitter links without any relation to the web app.
5. Display internal information to the users. For example:
    1. The database id of an user
6. Any other minor issue.

SOME IMPORTANT CONSIDERATIONS

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The student must deliver a **.zip** file called **YourSurname1_YourSurname2_YourName** that contains:

1. Another .zip file, concretely the one that Eclipse IDE generates using the Export option on your project (right click on your project in Eclipse IDE). This last .zip file is easy to import in any other Eclipse IDE)
2. .txt file with links to a video (at youtube, google drive, etc.) of your Servlets+JSP version of the web app project. This video must show, firstly, that the web app meets the minimum web app requirements and, secondly, what and how extra functionality your project adds. This video may not exceed five minutes in duration.
3. .pdf file: it will contain a very brief introduction to your project and, next, one section for each item of this assessment guide, explaining briefly either how a minimum requirement is met or how an extra functionality is provided.

The language of the aforementioned video and the pdf file will be Spanish for the students of the Spanish Group and English for those who belong to the English Group.

IMPORTANT: If ANY of these elements IS NOT DELIVERED OR IS NOT IN THE REQUIRED FORMAT, the grade will be 0.