Sprint 3: Analysis report

Group: C1.04.14

Repository: https://github.com/marizqlav/Acme-L3-D04

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Summary

Acme Life-Long Learning, Inc. (Acme L3, Inc. for short) is a company that specializes in helping learners get started on a variety of matters with the help of renowned lecturers. The goal of this project is to develop a WIS to help this organization manage their business.

Revision table

Number	Date	Description
1	21/04/2023	Full redaction of the document

Introduction

This document lists analysis records, each one including the following data: a verbatim copy of the requirement to which the record refers; detailed conclusions from the analysis and decisions made to mend the requirement; a link to the validation performed by a lecturer.

This document has the following structure:

- Contents
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- Conclusion
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Contents

Analysis records 3

<u>Requirement nº18 System Configuration:</u>

Decisions: For this requirement it has been implemented so that only currencies accepted by the API can be added. You can also change the system currency as long as it is in the system currency list.

Conclusion: In conclusion, this requirement has been met by listening in class.

<u>Requirement nº19 Operations by any principals on peeps:</u>

Decisions: This requirement was very clear, therefore there has been no doubt and it has been carried out in accordance with what the statement asks for.

Conclusion: No remarkable conclusion, since there have been no doubts.

<u>Requirement nº20 Operations by authenticated principals on bulletins:</u>

Decisions: This requirement has not been finished because there has not been enough time to fully implement its functionality and views.

Conclusion: In conclusion, it has not been counted as done for this deliverable and is expected to be finished for the next deliverable.

<u>Requirement nº21 Operations by administrators on bulletins:</u>

Decisions: This requirement has not been finished because there has not been enough time to fully implement its functionality and views.

Conclusion: In conclusion, it has not been counted as done for this deliverable and is expected to be finished for the next deliverable.

<u>Requirement nº22 Operations by authenticated principals on offers:</u>

Decisions: This requirement was very clear, so there has been no doubt and it has been carried out in accordance with what the statement requests, therefore there were no doubts when implementing an auxiliary class for the price attribute of type of money that had the type of currency that it was along with the amount of money it has.

Conclusion: In conclusion, I found it necessary to add a helper class so that they can only be added for all project prizes that have the types of coins that are registered in the system configuration along with their amount of money.

<u>Requirement nº23 Operations by administrators on offers:</u>

Decisions: This requirement was very clear, therefore there has been no doubt and it has been carried out in accordance with what the statement asks for.

Conclusion: No remarkable conclusion, since there have been no doubts.

<u>Requirement nº24 Operations by authenticated principals on notes:</u>

Decisions: The only decision to be made was how to implement the author property.

1.- Having the author field be an input text-box and then check that the text follows the appropriate pattern.

2.- Get the value of the author through a method in the service that calls the necessary data (username, name and surname) and then make the input field read only.

Conclusion: The second option is easier and more intuitive, rather than having the user memorize its data in order to write it.

Requirement nº25 Display banners randomly as little intrusively as posible:

Decisions: For this requirement it was specified in class that we shouldn't bring all banners to memory at the same time. Also, their data must be present at every screen. So we tried different approaches:

- We used an auxiliary class for loading banners information in a .txt file inside the resources folder through java's file writer so we can retrieve it on every screen using a js script. This was the first and more clunky approach because it was devised before we were explained how to pass this information properly. I'm still proud of the complex system I designed however.
- We used a controller advice to pass the banner info and retrieve it in jstl view. However, we should only retrieve banners with their display period active. This condition cannot be easily tested with a jsql consult so we had to go another way. We thought there were three approaches:
  - Load all banners in memory, which we were no to do.
  - Load just one banner and check if it's on display. If not, retry. This can be just as inefficient if we have few banners on display.
  - A middle ground approach. Currently we are loading groups of ten banners randomly and checking for any of them with display active. Then we choose randomly from them too. This is more efficient in case we have a middle number of on-display and not-on-display banners, which we think would make the most sense.

Conclusion: The last option is the most efficient one, even if it's the hardest to implement. It wasn't so difficult anyway.

Requirement nº26 Operations by administrators on banners:

This requirement didn't need an analysis, it was pretty straight forward.

Requirement nº27 Moments, money amounts, and Booleans must be internationalised when they are shown:

Decisions: For this requirement, the continuous collaboration of the team has been necessary when writing in the form correctly the internationalization of the dates, the texts, the amount type money and the Booleans, since it had to be fulfilled in this and in all subsequent group or individual deliverables.

Conclusion: In conclusion, the biggest difficulty with this requirement has been when deciding what type of attribute was being placed.

Information Requirement nº28 The system must show money amounts as they are entered by the users:

Decisions: To complete this requirement, we have understood how the API worked in Acme Jobs, from there we have abstracted the way to do it in our project. Once done, we were advised to make the exchange API call only once a day so as not to abuse the free API. To do this, we have stored the values of the exchange in the database with the date it was added, so if more than 24 hours have passed, the value is updated, so we have met the requirement successfully.

Conclusion: In conclusion, the greatest difficulty of this requirement has been to analyze how currency conversion works, but thanks to the explanations and slides of the theoretical and laboratory classes we have implemented it without any major problem.

Conclusion

In conclusion, this sprint has required more work than the previous one due to all the tasks that have been asked of us, although they were not very complex, they needed time to be completed. It should also be noted that in addition to the group ones, each component of the group had their individual ones. For this very reason, it was the sprint that took the longest time, not only because of its complexity but also because of the number of tasks that had to be implemented, which were not all implemented but which they wanted to carry out and finish for the next sprint. In addition, it is worth noting that many decisions were made

based on advice, suggestions and explanations spoken in the laboratories, not only by our group but also when other groups were exposed in addition to the forum.

Bibliography

- Document "On Your Derivables" of EV of the subject Design and Testing II.

- Document "So6 - On your follow-ups" of EV of the subject Design and Testing II.

- Document "o8- Annexes" of EV of the subject Design and Testing II.