

Requirements Engineering Review

Table of Contents

Functional Design	2
Introduction	2
Business Goals.....	2
Context and stakeholders	3
Stakeholders.....	3
Users.....	3
System context diagram.....	4
Use case diagrams	4
User, system and quality requirements.....	4
Wireframes with explanation	5
Conclusion	5
Tests and prototype.....	6
Backlog	6
Test cases.....	6
Test report.....	6
Prototype	7
Final Conclusion	7

Functional Design

Introduction

The introduction section of this report provides me with a brief overview of the project that was worked on. It starts by explaining the main objective of the organization Run For Life, which is to arrange marathons to support several charities by having runners and sponsors. The main purpose of these functional designs is approached right after by saying that they want to improve the way the data is processed because before it was being lost or incorrect. Also improving the way employees work with the program created by "introducing new features".

The introduction proceeds to explain the business goals and how they are going to achieve them by "automating their data handling and improving how things flow." Following that, they mention how the case diagrams that they draw will show how each group will interact with the system.

Even though the introduction explains the main overview of the project that was developed and its primary functions, I think the creator of this functional design could talk more about some aspects, like how each race gets money for the charity or charities. Also, I think that some more information about specific features or functionalities of the system is needed.

Although the introduction does not have a detailed structure about the document, I think I could understand mainly what was written, but some sentences made me unclear when it was said, "Organization by introducing new features." What types of features are being mentioned, and for what types of users? Also, when it was said, " We also looked into what each group wants," I think it was very unclear; was it to mention the users, the stakeholders?

To conclude, the introduction in this document is clean on a superficial level in a way that someone new to this project will get the main points, but when the reader wants more detail, it is a bit harder to get or understand. Personally, I think it should be a bit bigger, more detailed and structured in a way that the reader leaves the introduction with no major doubts.

Business Goals

In relation about the 3 business goals written in the document, all of them are written in a way that can be understandable and with no spelling mistakes. All of them were clear to understand and with proportions to improve the all the process mention, by having fundraising tools, a user-friendly interface, real life progress and much more.

How the goals will be achieved could be better explain there, I felt that all the goals are valid and need to be there for the better functionality of the system that was created but the words what were use was more to explain the reader what they wanted to do but they do not explain how they plan to reach that.

Once again, I felt that some parts were not clear to my understanding such as "the system will include help documentation and user support features" here for example I was a bit confused because I did not get it about what type of users they were mentioning and what type of documentation will be provided. But overall, I found the business goals understandable and easy to be read by a new reader.

Context and stakeholders

Stakeholders

The stakeholders mentioned on the document are mainly all clear and have a purpose to be there, their roles are explained in depth and with a good understanding to the reader. Almost all stakeholders are relevant to the system and have a strong role in the development of the project.

The involvement of these external stakeholders, such as runners and sponsors, is essential for the good functionality of the project, as if they didn't exist, the project could not be created.

I found it interesting that the charities are seen as a stakeholder because, from the way that I am seeing this project, the charities will not be affected by how the system will work, yes they will be affected by the correct data entry of their payments and the correct data from the sponsors, but directly, they are not affected by the system, so for these reasons, I believe that they are not proper stakeholder.

Furthermore, while a database administrator is mentioned for the first time in the document, it seems that it is not clear for me where the system is going to have a database and why they need a database administrator.

Users

It was difficult to comprehend the person in the document. Starting with the user having multiple names, "Emily" and "Sarah" following that the user does not have any goals, it was left out as blank, and ending with the user being an administrative coordinator, but in the user scenario, it is described as functions from the accountant.

I can conclude that this part of the document has a lot to improve, like being more consistent and having more users like one accountant and one coordinator, but following the aspects when creating a user, such as proper description of the user with details about it, goals for the user by using the application, and ending with a scenario where it will be an example of the use of the application

System context diagram

The system context diagram seems to be logical and simple to understand for a new reader but missing some crucial pointers. It gave me a new vision on how the system and some stakeholders will share information. But as I mentioned above, it gets the reader wondering some questions.

For example, how is the website passing information to the system? Why do the accountant and the admin both have an arrow in both directions since they will not be affected by the system, so they don't need an arrow from the system to team? On top of that, the stakeholder admin is now introduced in the diagram with no logistical background. I think instead of admin, it should be coordinator.

Use case diagrams

The 3 diagrams shown in the document are very brief, and undetailed because all the diagrams are not complete. None of the diagrams have a description or an explanation, all the features that the user can do are all super undetailed or just too generic. The Use Case U_2 and Use Case U_5 are basically the same, only changing a new feature, but for that case why create a new use case?

Over all, I think all the use cases needed to be worked on more, making it more clear not to use generic fractures like "Manage the list" What list are we talking about? It was super confusing to understand what was being written.

User, system and quality requirements

The user requirements they indeed looked completed from all the information that was given in the document. I personally think some user requirements are missing, like the log-out function that the user needs to leave the system in safety, also I believe that the accountant should have a verification feature for each payment to confirm if it was really paid or not.

I believe that a filter option would be needed for both users (U1,U2 and U5), and I also believe that the files should be given as a PDF, not a CSV (S_1.4 , S_2.4 and S_5.4) because it would be more readable for the users. Also, a big user requirement that is missing is a logout button for the users.

About the quality requirements I believe that all are completed and no missing requirements exist. The way all the user and quality requirements were written was super easy to understand, and a new reader will, all of them are order correctly, and the prioritization is also correct, and all of them have a clear source. All of them were putted in an understandable order and grouped correctly.

Some good examples of SMART requirements are: U_1 and U_3.

Over all I believe that all the requirements could have room for improvement from the Priority table not being letters instead of words (Must, Should and Could), also believe that in the S_1.3 should be a Must not a should, because the all point of that requirement is the user to be able to manage the system. Also, the S_2.4 should be a Should and not a must in my personal opinion.

Wireframes with explanation

The wireframes supplied by the document are too simple. Mainly, I think they could be more understandable to the user by giving a brief explanation of each wireframe. They are easy to understand yes but with a lot of flaws, like: A logout button never mentioned in the whole document, the modify list button is too vague as I don't know what will change or how it will work and the help button for the user is a bit strange in my opinion, I personally did not understand the objective of the button.

Overall, I believe that the wireframes could be done in a more detailed way, by showing how other buttons will influence other wireframes. Also, I think they should have some short of explanation as I mentioned before.

Conclusion

The conclusion from the document is pretty clear and easy to read, with no grammatical errors and some information about the whole document. A new reader will understand what was written and agree with the content.

The only thing I can point out is that I think it was too short or that it did not include some important information like how the new system will help the mentioned users and once again "create software that helps with race registrations" race registration was the first-time mention in the entire document, so I will definitely improve the consistence of the conclusion.

Tests and prototype

Backlog

The backlog items are too vague and are made for an existent system because its only adding functionalities to Something that in this case is the system. The names could be better written in my opinion like "Create an options bar" to something better for the user like Implement option bar in main frame for example.

None of the item has story points what made it a bit unclear for the team plan and can be difficult to track how many hours were spend after being completed.

Working with a backlog like this can be difficult for a new team member and I personally could not work like this.

I say this because no story points on each PBI's, the steps in some PBI's are a bit confusing like PBI4, PBI5 and PBI6 the first step for each one its more like the condition not what the user will do for the function to work. Over all I think this backlog is a decent starting point for a new team of developments but with some improvements to be made for a better workflow and for better understanding for someone new reading this for the first time.

Test cases

In test cases, related to the traceability matrix, I found it very poor because, first, it only retaliated 3 tests, and 1 of them already got all the fields checked. Only 3 requirements were mentioned, and in the document, they presented 5 user and several system requirements, so I believe that the traceability matrix could be more complete.

In relation to the test cases, I believe that all the tests can be executed by any user with no doubts about what to do or how to do it, all the tests are well explained, and the result will always be the same even if different users go through the tests. Although, as I mentioned earlier, I believe that one or two more test will be much better for the reader and for presenting the system for the stakeholders, it can give a better overview of the system.

Test report

About the test report I review the whole document and what can I get from that was: All the test cases were included in the document yes, but none of them had date or version of the system so it's a bit unclear when they were tested, all outcomes are supposed to be as showed, but I think we could have a better view of the outcome on test 2 for example, I found it very hard to understand what happed in the test.

Overall, I believe that the user could demonstrate a failed test and explain what went wrong or he could show a how he edits a runner.

Prototype

The prototype really surprised me in a positive way. It is indeed user friendly and super intuitive to be used. I did the 3 test cases from the document but with different values and all of them I could perform step by step with no errors or any problem.

The first text I login by using the accountant credentials and chose the runner list to be showed.

Result: Photo 1

The second text I changed the email from a chosen runner to text123@gmail.com and save the new imformation

Result: Photo 2

The last text I made was to press the help button to see the functionalities of the system.

Result: Photo 3

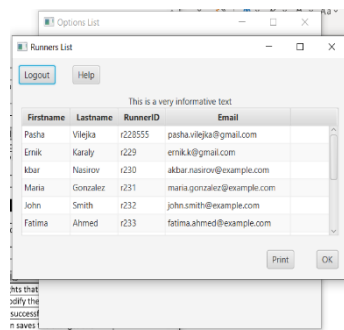


Photo 2

Photo 1

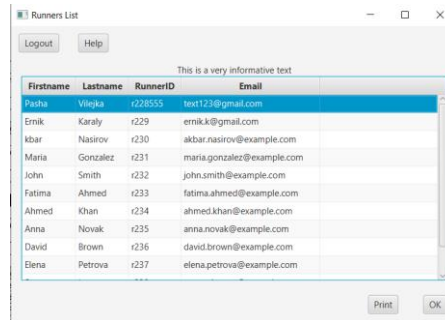
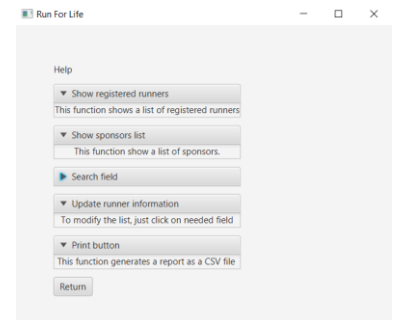


Photo 3



Final Conclusion

To conclude my review of this document, I can say that I believe that the solution presented in the document is a very good starting point for the system and for the client. The solution is mainly clear to a new reader, and all the important topics and imports are mentioned throughout the document.

Although I believe that the document could be more consistent in some aspects, as I mention in the whole document, sometimes some key importations were added with no explanation of where they came from or what they would do, and sometimes key information was explained but never mentioned again in the whole document.

To sum up, I can say that the prototype was really well produced in terms of functionalities, it was a wonderful blueprint to be shown to the client, but on the other hand, I believe that the test report could be bigger and have more details for a better understanding of the client.