Review on “Tim traffic business case” of group 10

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# Introduction

In the introduction part, we can see the overall description of Tim’s Traffic control company, their current situation and difficulties during work. But it can be improved with details such as their paperwork or functions with excel. However, what this document includes was mentioned, but not mentioned the overall goal. For example, it should be better to say what the company will get for a final solution and what problems will be solved. But the general essence of the document was clear.

# Stakeholders’ analysis

That was a nice decision for showing stakeholders in two formats: diagram and table. It was better to assimilate information. After reading the tables’ content the goals and position of each stakeholder become clearer. Moreover, each stakeholder has their influence or/and interest in the current company, that’s why all of them are relevant.

In addition, the table can be more useful with the following columns:

* “Sources available for stakeholders and possibility to use them”,
* “Knowledge level of the stakeholder of the subject”,
* “Willingness to take initiative or lead”.

# These columns could provide us with more information about stakeholders’ positions and their aims.

# The power influence matrix is also great and provides us with more data.

# Requirements

Overall, the requirements are good. Many requirements were created from letter, interviews, and only one from personal experience. In addition, that would be better to add the “Moscow” column, which will describe the priority of each requirement. However, requirement № 3 would be also good to explain objects, where the controllers can view their tasks according to the application. In requirements № 11 mentioned “User”, who will have access to Excel, I think, here is also should be added a roll of this user.

Furthermore, some requirements from the letter are still missing:

* Log in,
* Invoices
* Salary
* Notifications

Also, there is the correct division into non-functional and functional requirements and correct ISO classification.

# Diagrams

With diagrams, it was easier for me to understand the case. But each diagram should also have a description to clarify the main sense and provides connected requirements.

System context diagram. The diagram is good and simple. As for me, it would be better to add to “administration” and to “controllers” action with “get a salary” from the business. In overall the system is clear.

Use case diagram. The diagram is simple, but for me, not all information is included in it now. Firstly, actions for clients: pay invoices, log in or register. For controller: log in or register, get a salary. For administrations: log in or register, get a salary. In the controllers’ case that was a good decision to add “export Excel” in the description to their action № 6. With these tables' descriptions, it was easier to grasp the concept.

System architecture diagram. The diagram is decent. It was clear to understand main things, connections, APIs, and gadgets. But there is new two actors: the manager and the accountant. I think they also should be in the use case diagram and in the requirements.

Domain model. The model is clear, but if I didn’t know the symbols of connection (one to many, many to many and etc) it will be very incomprehensible to me, especially when there is no description part. Maybe that would be better to add worker positions and table with their salary. And also, it is not understandable for me: why one registration can have many workers? Maybe there should be a connection “one to one”. Also, Not really clear with tasks. As for me, one project means one task. I liked that in the project table there is a “number of workers”, also we can add here id of workers and avoid this attribute. There is a lot of personal information for clients, and it would be also great for storing their invoices, which may be on different tables, and card number.

Activity diagram. The diagram is complex and provides us with plenty of useful information. At the beginning part, I suggest adding “log in or register” part for the client, and only after that will be “client request a project”. After that, I think there should be part in a system – “system sends a request to administrator” and then “manager receives the request”. After that, there is a little difficulty with double-sided arrows. Should it work at the same time? Also, I like the part with notifications to controllers it is very useful for their business, but there are no mentions about notification in the requirements. After “system sends financial data to administrator”, I think, missed an arrow to “manager confirms project completion”. And after finishing the project the system should create an invoice for the client. But overall, the goal of creating a project is clear.

# User stories

Backlog items have good separation into different features and they also have their estimation, which really useful. Delving deep into user stories, the majority of them have actors, preconditions, steps, and remarks. That is also very helpful for understanding.

But there are none of the post-conditions. In story № 1 postcondition could be “The system successfully shows project page”. In story № 2 – “The system successfully saved controllers’ information”. In story № 14 – “The excel file successfully downloaded to administrators’ computer”.

In story № 2 in precondition mentioned that the user is already logged in so that in steps there shouldn’t be a “login” step. The same situation is for № 7.

The № 3-6, 8, 10-13 are not user stories, they are similar to system requirements.

In story № 9 there is a time of 15 minutes, it should be also be mentioned in the requirements. Moreover, notifications also should be mentioned there. Postcondition here can be – “the system successfully sent notification to the client”.

# For sprint backlog were given stories № 1, 2, 3, 4, 7, 8, 9, 10, 11. Tasks 1, 2, 9, 14 are complex, I think for the first sprint that should be easier tasks like “log in”, “register”, “creating new project” and etc. For now, without anything at the beginning, it would be really complicated to start with the following stories. As for numbers 3,4,8,10,11, there is only a small sentence without steps and details, so that’s why impossible to work with them.

# Tests

The traceability matrix is complete for 8 requirements. But there are still 6 requirements without tests and no description of how they will be filled in.

A more detailed look test case № 2 reveals that controllers can view their tasks. This is a good example of a test case; the steps are correct and pre- and post- conditions are relevant. Examples of good test cases are № 3, 5, 7, 9, and 10.

For № 4, in my opinion, for following requirements shouldn’t be a test case. The requirement is easy to understand and does not require a special test case.

The test cases № 5 and 6 are with similar titles and steps. One should be deleted or improved to the unhappy path.

Test case № 8 mentioned “verification code” in the register stage. If there will be such a code, it should be also mentioned in the requirements. Test case № 9 is a case for the same requirements but with an unhappy path. This case is correct.

# Mockup

# As for mockups, we can see only three pages of “tasks”, “list of tasks” and “creating tasks”. I think these mockups are for user. They are good, but I suggest to add also mockups for web pages, not only for applications. And also add mockups for:

# • For customers: login and register, homepage, their own page, invoices, add an address to the page with creating task.

# • For controllers: tasks, salaries, homepage, their own page.

# • For administrators: timesheets, excel, salaries, invoices, homepage, their own page.

# Also, there are some missing requirements for wireframes: 1, 2, 3, 4, 5, 6, 7, 10, 11, 15, and 16. And also group should add to requirements that users can create and view tasks (as shown on mockups).

# But the following screenshots are clear and with a user-friendly design, that’s also good. For more understanding, you could also add some text on each screen. For example, “Please, select date and working hours for your task” etc.

# Conclusion

With the above document, developers will partly understand the essence of the project. Firstly, because of not complete requirements. Secondly, because of only given 3 pages for mockups. But I think with that review it will be easily improved and as a result, will be a good project.