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Process Report

Florin – Leonard Bordei – 280593

Jaume Lopez Topping – 282231

Supervisor: Jørn Martin Hajek

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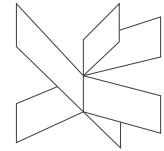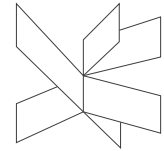**Software Technology Engineering**

7th Semester

17-December-2021

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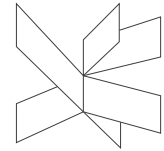# Table of content

1   Introduction

The purpose of the 7th Semester BPR2 course is to finalize the Bachelor Project which follows similar paths as the previous SEP projects.
The group starting working on the Bachelor Project in the 6th Semester when during the course of BPR1 the group had to formulate a project description, group description and agree on the terms of the group contract.

The group is formed by two members and each member has been assigned with full responsibility over their assigned tasks.

For project management, we have used an adapted for of SCRUM and Unified Process.

The working days have been selected randomly but it has been 3 days a week as a standard.
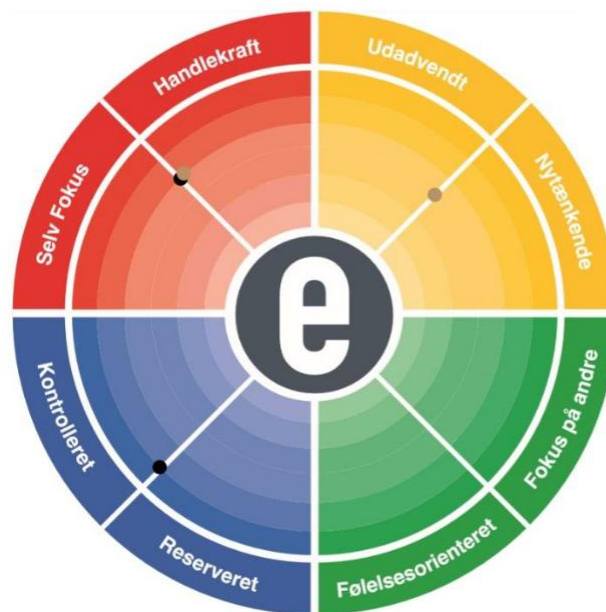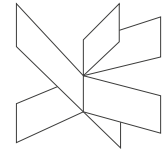
2   Group Description

In this section the group will include the cultural background of each member, what team analysis tools of personal characteristics have been used and the personal reflections of each team member on group work.

Florin is from Romania, but for 9 years he has lived in other countries than his own. Most of the time has been spent in Denmark but also countries like Spain, France, Germany, Latvia, Lithuania, Estonia and Slovenia. Prior to this group project, he holds a vast experience in group work in academical and professional environment with stakeholders of different professional and cultural background. Similar to Jaume, he has experience of four semester projects and one semester internship at AMCS A/S.

Jaume is from Spain and currently living in Denmark since he started his bachelor education in ICT at VIA University College. Prior to this, he had lived in United Kingdom for a period of three year and also pursued a Mechanical Engineer education at Universitat de Girona, Spain. His group project work experience consists of the four semesters spent at VIA University College and one semester internship at Telespazio, as in his previous educational and professional history he did not had the chance to work in group projects.

In this BPR1 Project, the group has not felt that it has been useful Hofstede Model of National Culture. Even if some isolated cases felt like we could have used the Power Distance Index or Individualism versus Collectivism, the group considers that overall, the model does not apply in our case.

As stated on e-stimate : "Using the tools creates an understanding of employees' and managers' personal drivers, strengths and approach to others. Important knowledge in an organization that must develop and perform well every day". This statement is strongly supported by the team as it beliefs that the personality profiles that each of the members has it should have been discussed prior to project initiation. E-Interpersonal profiles characteristics played an important role over the first three Sprints until each member understood each other's characteristics.
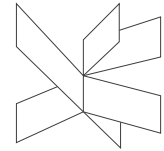
Process Report

Source: e-stimate

Florin – Black

Jaume – Brown

By looking at the model of characteristics, we can realize that the group has both members in the red area where there might be struggles of power that can cause conflicts.

The red area being characterized by Dynamic and Whip, or Executor, and this can create conflicts on the role of team leadership for which direction the project should follow and what methods and concepts should be implemented. As a solution for this problem,
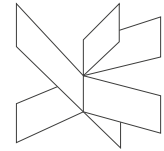
Process Report

it has been agreed in the group that the contract should be followed strictly, in the sense that each team member must have an open platform where he can discuss and debate his ideas.

One advantage of having both team members in the read area is that they are determined and goal oriented and this should enable them to succeed with delivery on the deadlines and reaching milestones of the project. Last thing to mention for the red color group members is the possibility of a conflict due to their direct manner of communication and, according to the group, that might not be a problem due to their experience of working together and their direct approach in general.

Florin is also characterized by the blue color where he is more detailed oriented, systematic, and methodical. With such characteristics, the group will be able to have a good planning mechanism and an extra attention for details in the project work. The disadvantage of these characteristics is that there is a possibility of getting lost in the details which would not contribute so much to the project and here the solution is for the other member to prevent him from such behavior.

Another reason for possibly having conflicts it can also the direct manner of communication. This situation can be changed by having the group members in red changing their direction for creating results and being resourceful which facilitated collaboration.
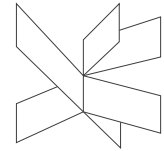
3   Project Initiation

The first part of the project initiation has been to form a group. According to the requirements, the group had to be between 2-3 students. We created the group according to the requirements and based on previous work experience. As we agreed verbally in forming a group, we proceeded forward with the group contract (see Appendinx A – Group Contract).

The second part has been the selection of the topic that we would like to work upon it and we decided to work with the idea of a company that requires to move their processes on a platform and also their sales operations. We've felt that this would give us plenty of opportunities to work on different topics from our studies.
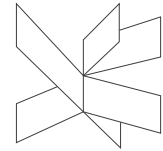
Tools that we have used in project management:
- For documentation we have used Word
- For keeping track of tasks, Excell file with the assigned stories for each sprint
- Githun for the project repository
- Google drive for any documentation or project files.

4   Project Description

For project description phase we've encountered a bit of some problems to be on the same track of ideas and directions but we have managed to find common ground in it. The work on the project descriptions has been divided and later it has been modified after we have received feedback. For the full Project Description please consult Appendinx B – Project Descrition

5 Project Execution

5.1 Product Backlog

See appendix C for the full version of the Product Backlog and Scrum Artifacts (Sprint Backlogs, Burndown chart)

The estimated work hours for the project are 27.5hours*2 person*15ECTs that have been split homogenously between the 8 Sprints, being 104 hours per Sprint in total. The first 7 Sprints are focused on the development of the application and Sprint 8 for documenting the application.
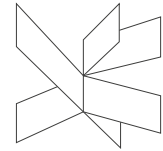
5.2 Sprint 1

Start date September 1st

Sprint backlog

Product backlog items	Sprint #1 User story	Story point	Assigned	Status
1	As a customer I would like to be able to create an account so I can log in to my account.	52	Jaume	NOT COMPLETE
2	As a customer I would like to be able to have all products displayed with picture description, and price so I can make my research.	52	Florin	COMPLETE

Sprint resume:

In the first Sprint some tasks were not complete as most of the hours have been dedicated to creating the application architecture. However, the architecture and one-use case are complete.

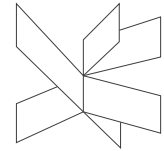The backlog item 2 is moved to second Sprint.

5.3   Sprint 2

Start date September 13th

Sprint backlog 2

Product backlog items	Sprint #2 User story	Story point	Assigned	Status
3	As a customer I would like to be able to create an account so I can log in to my account.	52	Jaume	COMPLETE
4	As a company manager I would like to be able to check all my customer details so I can have an accurate overview of my customers.	26	Florin	COMPLETE
5	As a company manager I would like to be able to check all my products so I can have an accurate overview of my products.	26	Florin	COMPLETE

Sprint resume:

In the second Sprint we added the backlog item from Sprint 1 that has not been completed and added two more

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5.4 Sprint 3

Start date September 27th

Sprint backlog 3

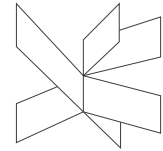| Product backlog items	Sprint #3 User story	Story point	Assigned	Status
5	As a customer I would like to be able to log in to my account so I can order products.	52	Jaume	COMPLETE
6	As a company manager I would like to be able to add new products to my online shop so I can offer them for sale to my customers.	52	Florin	COMPLETE

Sprint resume:
On Sprint 3 everything went like planned.

5.5 Sprint 4

Start date October 11th

Sprint backlog 4

Process Report

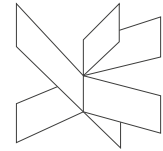| Product backlog items	Sprint #4 User story	Story point	Assigned	Status
7	As a customer I would like to be able to add or modify my shipping address so I can have my correct shipping address stored into my account.	26	Jaume	**COMPLETE**
8	As a company manager I would like to be able to edit/delete my products so I can have an up-to-date offer of products.	26	Florin	**COMPLETE**
9	As a company manager I would like to be able to apply or remove discount on my products so that I am able to boost my sales.	52	Florin	**COMPLETE**

Sprint resume:

On sprint 4 the team managed to estimate correct story points and managed to complete three tasks.

5.6   Sprint 5

Start date October 25th

Sprint backlog 5

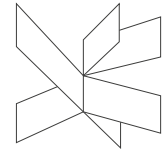|	Sprint #5				
Product backlog items	**User story**	**Story point**	**Assigned**		**Status**
10	As a customer I would like to be able to add or remove products in my shopping cart so I can have a final list of products that I would like to purchase.	40	Jaume		**COMPLETE**
11	As a warehouse manager I would like to be able to check on my stock information so that I would be able to have an overview over my current stocks	40	Florin		**COMPLETE**
12	As a warehouse manager I would like to be notified if products are about to go out of stock so I can be able to make orders from suppliers	80	Florin		**NOT COMPLETE**

Sprint resume:

On Sprint 6 the team decided to add an extra backlog item that would be hard to complete but decided that it is important for the application.

Backlog item 12 is moved next Sprint

5.7 Sprint 6

Start date November 8th

Sprint backlog 6

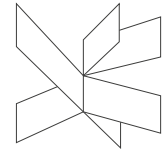| Sprint #6				
Product backlog items	**User story**	**Story point**	**Assigned**	**Status**
13	As a customer I would like to check out my products from the shopping cart so I can finalize my order.	40	Jaume	COMPLETE
14	As a warehouse manager I would like to be able to check on my stock information so that I would be able to have an overview over my current stocks	45	Florin	COMPLETE
15	As a warehouse manager I would like to be able to add or delete products in my stocks so I can have an accurate list of products in my warehouse.	20	Florin	COMPLETE

Sprint resume:

On Sprint 6 the team managed to finish the backlog item from previous Sprint plus two more user stories.

5.8 Sprint 7

Start date November 22nd

Sprint backlog 7

Sprint #7				
Product backlog items	**User story**	**Story point**	**Assigned**	**Status**
16	As a customer I would like to be able to modify my email address so I can have my correct email address stored into my account.	26	Jaume	COMPLETE
17	As a customer I would like to be able to delete my account so my personal details are not in risk.	26	Jaume	COMPLETE
18	As a warehouse manager I would like to be notified if products are about to go out of stock so I can be able to make orders from suppliers	52	Florin	COMPLETE

Sprint resume:

The last Sprint that is dedicated for the application was a good one as we conclude the implementation for the system and the main purpose of the project (online shopping) is achieved.
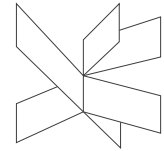
5.9   Sprint 8

Start date December 6th

Sprint backlog 8

	Sprint #8			
Product backlog items	**User story**	**Story poir**	**Assigned**	**Status**
1	Process Report	40	All	Completed
2	Project Report	64	All	Completed
3				

Sprint resume:

End project December 17th

6   Personal Reflections
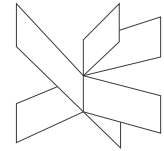
6.1   Jaume Loppez Topping

Since corona times things have changed, now I am used to work online and this has some communication drawbacks. However, I prefer this style as there is more freedom and being able to work from home is a good thing. Also, being a team of two person made the whole process simpler and no discussions. However, being a small team, I think we missed out a group member with some nice creativity to make the application nicer for the user. But we did our best to finish the Project on time. I can say that I'm happy with the result.

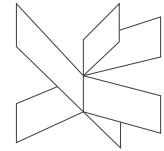## 6.2   Florin – Leonard Bordei

It has been an ok experience working for this project. As an opposite to my team member, I am a bit of a discussion guy where I prefer to talk things out to make sure we are on the same page with our tasks and project. Despite all challenges, it has been a good relationship with Jaimie, except the fact that I don't agree with some of his approaches, he was an easy person to work with. As for my contribution to this project:

1. Project Report: Abstract, Introduction, Analysis, Implementation (4.2, 4.3), Testing and Conclusions
2. Did the analysis and partial design on all requirements for the company and warehouse manager
3. Code implementation for Warehouse Manager, Company Manager and partial Customer – shop

Happy to finish with the project and slightly happy with the results.

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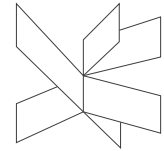
7   Supervision

8   Conclusions

The team has managed to deliver the project as planned with small deficiencies in terms of completing the implementation of all requirements.
Using the SCRUM framework, we have been able to assign tasks to each group member.
Each member tried to his best abilities to work on his tasks and help has been giving when any problem has occurred.
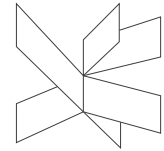
Appendices

Appendix A – Group Contract

Appendix B – Project Description

Appendix C – Product Backlog

Source materials:

() *E-stimate Personal profile SWE,* Available
at: *https://via.itslearning.com/LearningToolElement/ViewLearningToolElement.aspx?LearningToolEle
mentId=200018* (Accessed: 3rd May 2021).