Intern Rapport



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# Learning goals

## Manage

**Learning goal 1**You can work with a pre-established and approved intern plan (including planning) and justify any deviations.

**Situation**The assignment is exactly written in my intern plan. In this intern plan you can find the requirements, design, and description of the product. I have kept the most of the designs. Some points not, because there were come some information I didn’t know at that moment. At half my internship, there came with more features. The employees had new ideas that made the product better. The reason was that we must make a product for VI Company.

**Task**My tasks were:

* Programming within the guide lines
* Argue exceptions
* Correct any design if they are wrong

I want to achieve that I made a good product. That I can defend my product with arguments. I hope with the guidelines we made, that I can build a program with high qualities. I want to be sure to secure these qualities.

**Action**After I made the intern plan and let me approved by the intern teacher, I’m started to create the program. Because I made design and put it in the intern plan. So, I created the program how I planned it. The employees were positive about my product.

**Result**The result is that we have a good and working program. The employees can work with program now. My program is tested and has usability tests. I changed the exceptions and extra features in the design. Our working group gave us more ideas how I can improve my product. Because there was enough time to implant more features.

**Reflection**I made a product where I’m proud of. A couple of employees said they can work with the program and it make it easier for them. What did go well is that the greatest part of the program is the same as on the design scheme. The next I would think better about the technique what we want to use. Then we didn’t have to look some problems.

## Analyze

**Learning goal 2**You can analyze an assignment based on a research question. You use methods and technique that exists. Also, you can run a requirement analyze for a part of the software system with multiple stack holders. You must consider with the high-quality standards.

**Situation**In the first few weeks we did research to the needs of VI Company. They have running multiple software. Our assignment is to make one of the processes easier from the developers here. In this part of my internship I did interview multiple developers from this company. We interviewed frontend and backend developers. So, we can consider multiple sides of all the programs. These interviews are taken in the office. Also, we take a lot information from the internet to confirm what we thought we need.

**Task**My tasks were:

* Make the interview
* Give the interview
* Process the results to ideas

What we want to achieve is I want to know how the software works at VI Company. They expected to create a big and good assignment. The assignment need to make some processes easier for the employees. The approach of the assignment is to create a part software that automatic some processes. So, we needed to get some problems from the interviews and other research. We did research the projects of VI Company. We got the approve to look all the projects.

**Action**We took the assignment so big and open as possible. We had some subjects and ideas to start the interviews. For some people is difficulty to tell what is wrong or can be different. After each interview, I improved the interviews to get better answer from the developers. At first it was exciting to give an interview, but after a couple interview is slow away. After the last interview, I heard that there was a little structure, but not a lot. That feeling was not great.

**Result**The result is that we have a nice list of all the problems at VI. Now we can take the most interesting and learning subject to make an assignment. On our list came two subjects. The first one is translation of all products and the second one is the Identity Provider. My colleges reacted surprise for what we had on that list.

**Reflection**We got a great result from the interview and internet. So now we can create a new assignment for intern plan. The critical point is justified. We forgot to give a good explanation for some employees and why give this interview. I learning how to lead a discussion and consult what I can do for the assignment. Next time I must need more information how to give an interview. I need to inform myself from the internet and other people. Also, I want to clear the uncertainties as soon as possible newt time.

**Learning goal 3**You can create specification from the analyzing.

**Situation**From the interviews and projects from VI Company we got a lot information about processes. There is a lot background information here. After the interviews, we talked to college’s the get more information what exactly the problem is. Now we create a lot user stories. Our colleges checked the user stories and give us feedback. These user stories are on Team Foundation Server. So, that we can get user stories anywhere were we have connection to the local server.

**Task**My tasks were:

* Filter the information
* Create user stories
* Get and give advice

My part is that I was thinking about product. We needed to specify what the product needed to be. So, I created a good description and a good view of the product. The expectation was that we get a start to make the software. Of course, we can ask the questions in the future. I expected to create so good as possible product. So, I hope to impress the employees from the company.

**Action**I created the requirements with somebody else. These requirements are based on Scrum criteria. The user stories are also shared in tasks. After that, we discussed with other employees. These guys gave us improvements. So, we improved our requirements with the improvements. At that moment, I knew that we going to create a beautiful program. The intern teacher gave us the confirmation to start with the assignment.

**Result**The result was that we go a whole list with requirements with descriptions about the product. Everybody was positive about a preparation including the intern teacher. Now we can start with the design of the product.

**Reflection**It’s was going well, because we can start right now with the design and creating the product. Everything was obvious for everybody and in the rest of the time there was almost now unclear subjects. (We had a lot questions about the technique, but that is another story). What I learned is that is difficulty to write good user stories. So, it’s imported to check anyone his user stories. So, that you can learn from his mistakes and you can improve it. Next time I need more information for more idea’s. I need to learn to ask more questions. Then I can prevent little mistakes in the future.

**Learning goal 4**You can create an acceptation test from quality properties,

**Situation**We have made some usability tests. These tests are made how the user use the program. That did we done with paper test, but also later with the program. From this test gave us information about how the user handled our user interface. We tested if the user understands everything and if it’s logical. In the preparation, we did choose a couple of employees of VI Company. These employees are going to use our program. In these test, we give the user a lot assignments. He must have made the assignment so fast as possible and gave us. We did so little as possible to information.

**Tasks**My tasks were:

* Create usability tests
* Make the tests with the users
* Get the improvements

My part was here to think what the user needs in this program. During the test, we can discus with the user what he thinks he needs from the program and what he likes about the program. We did also create standard question, that we can get deeper information from the user. These pointed are written in a word documentation. We did change the improvements in other parts of the project.

**Action**First we created the paper test. Because we didn’t have a program to test it with the user. User gave us improvements. Later when we created the product, we tested also with a usability test. Both test the user perform the assignments we gave him. If the user takes a lot of our time. Then we wrote the improvements on the paper. Now we have more insight in our own product.

**Result**The result is that every time we perform the test. We get more improvements of the user to create a better product. So, now we have a better insight of a better design. I can get these improvements for my next projects in the future. Then I don’t have the same problem again. Everyone where I test the program was more the helpful with us.

**Reflection**Everything ended well. We didn’t lose a much time and we did have good prepared. Maybe I need to do more structure in the usability test. Then it’s easier to remember and the test was going faster I think. But we got the improvements that we need. In the end, everything was clear for the user. On that point we got everything good prepared.

## Advice

**Learning goal 5**You can explain and good advice about new processes, software, and/or new technique. He can explain this clear and understandable.

**Situation**In this part of the assignment we searched how are going to do the project. We looked on the internet. We discussed with colleges. So, we can filter every information on a list. At first, we looked at which software we are going to use. Second, we looked how we are going to edit the label translations. With these information, we are going to a few colleges. We told them what we found with arguments. We have done this with meeting. I advised the employees that we are going to use a desktop application with WPF, because the security and you don’t have to run on the server. In the meeting, we told the employees the longer version of that. Also, we advised to change the structure of the JSON files. Then the process changed, but it will easier to create a website for the developer.

**Tasks**My tasks were:

* Collect information
* Process the information
* Present the information

My part of this assignment was present the advice as good as possible. Then I can show the employees what my idea is and how I want to create the program. With arguments, I can show you that it’s possible within the time limit. My expectation is that I present it very well. Because I gave more presentations in the past and I want to prepare to good as possible.

**Actions**First, I collect so a lot information from the internet. I wrote that information in a list. In the meeting went well because I was good prepared and had multiple items on the list. At first, some employees didn’t understand why we going to use a WPF application. After a few argumentations, they do more understand why. They told me that I stand there confident.

**Result**The result was that we got a confirmation to start the design and programming after designing. Now, we get an application what I had in my mind. A lot of the company are positive about our WPF application. A lot of them gave us new ideas in the meeting for the technique. They are also curious how it’s going to work what we have in our mind.

**Reflection**It’s was going well, because we did convince the colleges with our arguments. Now we finished our project, I know that the arguments were good arguments. But, we found a disadvantage from the technique we are using. After a sometime past, we fixed the bugs from the disadvantage. I think we choose the right choice. I have learning that I must talk more and I ask more questions. In the future I must practice more on my talking experience. I found it difficult to talk a couple phrases of the same subject.

## Design

**Learning goal 6**You can create a design for a software system and you can combine them with exists part and libraries; Also, you use with design qualities;

**Situation**We need to design a good product for VI Company. Our product need to run with other projects. By the design must we consider that it must run with other projects. For example, VI Company’s websites use JSON files for the translation. We are using with our program the same project. Also, use our project multiple libraries. Such as, library with Markdown and library for UI elements. I created UML diagrams and use case descriptions for the design of the program. You get a good idea how the program can be.

**Tasks**My tasks were:

* Design the product
* Search for probably problems
* Arguments why do you it on this why

My part of this learning goal was to design a good product as possible. I wanted to search for the programs. If there is a problem, then I want to fix it. By the design, I have considered the high-quality requirements from school. If somebody want to program with our program, then he must can understand fast how it works. Also, I needed to interview some stakeholder. This information is processed in the design

**Actions**First I have researched a couple of possibilities to create a good product. With these possibilities, I was going to a stakeholder to confirm it’s correct. It’s not 100% correct, then I need to improve my design. I created a lot UML diagrams and descriptions. After that, it’s was clear what to do for me. The developers approved my UML diagrams and already happy what they saw.

**Result**The result was that the developers approved my UML diagrams. So now I can start to program our product. It was easy to start, because we have processed everything in the design. We worked almost with two persons on the project with help from others. Later we had to edit a couple little features in the product. So, we had to edit in the design. But the most of the product are the same with the design.

**Reflection**I like it very much that I created a great design. I think it can be a really product. Maybe I ask more from people and less speculate. But everything is edit in the design. So, we have now a good view what we have done. I learned that is handy to create diagrams. Because, I talked easier with other developers. I can now create better designs than I did it before. I learned to use different and more symbols and create more realistic design.

**Learning goal 7**