

PROJECT PLAN

Introduction:

Dear stakeholders, with the increasing need for housing in Eindhoven it becomes harder and harder to find accommodation these days. The majority of university students are renting an apartment or a room, and our goal is to help them not only to find the best place to live, within their budget but also to improve their staying in our housing by finding solutions to common problems they have to face daily. Our team will develop a software application that will be able to find these solutions and help our tenants to enjoy living in the accommodations.

Current situation:

At the moment Student Housing BV receives many complaints related to the state of the shared rooms. The tenants express their frustration related to the inability to arrange the schedule and manage the shared tasks. Landlords complain that the rules need to be changed in place for each building.

Problem statement:

The complaints are rooted in the residents' inability to divide chores among themselves in the shared residences, set rules, and reach agreements with one another. These are not minor problems and should not be ignored. They can lead to quarrels between the roommates.

Process:

The team analysed the given problem and divided the project into several parts. For the following six weeks each team member had a part in the project to do. In the first weeks, the login and account system was implemented. After that, the student main pages were added (gives the option to make complaints, register tasks, assign schedules, etc.). In the last weeks, saving functionalities were implemented, and an overhaul of the design was done.

Conclusion:

The project implementation went well. What more could have been done is to hold more frequent team meetings. They will increase the team's efficiency over time. Project communication was good. Everybody knew what to do and how to do it. The final product exceeds our expectations.

Evaluation Reflection:

Stoyan Grozdev- Redoing the project gave me a better inside of how to use OOP and how to work better in a team. Going back exactly to the moment when I first started using classes and objects, I realized the following things. I struggled to use multiple classes in a collection, I had a hard time reading a UML diagram and creating one, and I didn't know how to loop through multiple lists of type classes. The planning of the first project was a mess. Everyone would come up with an idea at any point and try to implement it, git usage was minimal and communication

too. This time things were different. The features that were going to be implemented were decided at the start, git was used actively and communication was better compared to last time. What could be done better in the next project is for the team members to work together in the building while doing their parts of the project so merging and compatibility issues would be easier to fix. The project was a great learning opportunity to test my judgment of time when developing the product and meeting the deadline.

Boris Marinov - Due to the fact that I had no previous experience with programming managing through the assignments was a challenge. I could not keep to the standards of the university last semester, but now everything feels more natural and I seem to understand it going through it again. I think through this semester I have grown a lot as a programmer. For example, crating methods was hard and implementing them within classes was very complicated for me. Also, before I had ideas how a task should be done but no actual syntax in my mind. Personally documentation, diagrams and project plan were never something hard. This time I think I caught up with the standard and maybe even surpassed it a bit. Also, something very important to mention is that this time for the group project I really understand the code and I am able to even give solutions to problems. While working with my teammates I had a blast. Everyone showed passion and understanding. We all connected well and even became friends. Everyone was doing what he needed to complete the project and finish within the deadline. For the next project I would like to take part even more in coding so I can become a better programmer.

Milan Milanov - This was another big challenge that was sitting in front of us. We took this opportunity and we learned a lot from it. Each and every one in our group learned something new while doing the project, not only about the technical part and our programming skills, but in a professional way as well. My teammates – Boris and Stoyan are amazing and I think we did pretty well on this project group. We were able to show and present a fully working software for the Student Housing B.V. Everything went smoothly and every member of our group was doing his tasks. At the beginning we did not do the best start possible, but of course we were able to speed up the process a little bit and finish it on time. About my teammates – Stoyan is one of the best teammates I have ever worked with. He was clearly the leader of our group not only because he was way better than us in programming but also because he showed some leadership qualities and was leading our group to perfection. He was always there to help me if I needed help and was always there if something is wrong – I learned a lot from him. Of course I should say that we all helped each other when needed and there was some things he was asking for my advice which felt nice. I hope he learned something from me too. But of course as I said Stoyan is one of the best team members I have ever had. Not only because he was a leader and was helping us, but because he is reliable and you can count on him, because you know he will do his tasks on time. About myself I could say that I learned a lot and I was trying to help as much as possible my team mates and was doing my tasks on time and no one was waiting for me to finish my parts of the project. About Boris – he is a little bit the opposite of Stoyan. He was not always there and was not so reliable, but of course just like me and Stoyan, he finished his tasks on time, which was very good. Sometimes we had to go through his work

and explain to him what he did wrong, but I think that is perfectly fine because this is the way people learn – from their own mistakes.

After all, I could say that I am very proud of us, because as I said we presented a fully working project. Not only that but everybody learned something new and you can see the skills development of the group members. It was fun because it is nice to be in a team with friends.

What will be improved as an individual for next semester:

Stoyan- I will improve my professional skills, I will communicate more and achieve better results.

Milan- I will be more motivated, I will maintain a better level and I will take my exams.

Boris- It was a long semester from which I acquired many new skills. For example, I made a significant increase in my presenting skills. In our group project, I was not the most active. I can say that everything went smoothly with good team management and communication, but for the implementation, I was lacking behind and barely caught up with the past 2 weeks. For the next semester, I will take more control over everything including code. I am confident in my skills for the semester and in my opinion this I for my better growth as a programmer.