

Report

Introduction/Background:

Student Housing BV are a student housing company that are renting out rooms with shared facilities for students during their studies in the Netherlands. It appears though, that the many of the tenants in the company's housing facilities are unsatisfied and annoyed with each other, that's why the company has tasked us with creating and developing an application that can solve the issues that the students are having to deal with, such as unannounced parties, not cleaning the garbage on time, etc.

Problem statement:

The agency has been receiving complaints for some time now from their clients. Some of the complaints are related to:

- People not cleaning the shared facilities after using them.
- Some people not paying for groceries and shared items.
- Not cleaning the garbage on time.
- Having unannounced parties or gatherings.
- Noise complaints.
- etc.

Goals:

Our goal is to make a software that allows people to have a space where they can record them and do more(for example agreements, have suggestion for changing/adding rules, etc.)

End product:

In order to fix the problems stated before, we decided to implement the following ideas:

- Record and set agreements between students - Tenants
- Collecting and recording complaints from the students - Admins
- add/update/change the rules/view student suggestions - Admins

- File complaints (can be done anonymously) - Tenants
- Schedule events – Tenants
- Being able to add/remove students from the house – Admins

Process and results:

The implementation was a great success. We have been able to achieve all the goals set.

The process lasted about 3 weeks in which each of us dedicated time and effort into finalizing the product. We divided the work in 2 team, each team working on one of the two forms(Admin and Tenant). As soon as someone implemented something new, each of us gave feedback and was able to access the new file in a short period of time.

During the process we have encountered some bugs and also, we ran into many problems we have been able to fix using the knowledge from the courses and also with some aid from <https://stackoverflow.com/>.

Conclusion and Recommendations:

Working as a team is not as easy as it seems because communication is a key part of the process and the Corona state made it harder for us. Despite all of that the coordination of the team was on point and neither of us had complains to add about each other.

This project made us know more about each other and strengthened our coding partnership. We learned how to code as a team, commenting and making the code be more accessible to the people seeing it for the first time.

Evaluation/Reflection

Stanislav Petkov:

Overall, I think I had a great contribution to this project, I was the one who established all of the basic connections between the forms during the first week of the project. I also did a big percentage of the functions in the main House class (our manager class) such as rule functions, the tenant functions and the login-checkers. I was also in charge of the login form and all of the registrations and removals of users that can be done through the admin form. Me and Kristiyan did everything regarding the rules in this application, in the Admin form we split the work about the rule form equally and I helped him a little with his original idea about the ability to suggest new rules in the tenant form, when he got stuck. Something else of importance, that I did, was to help the other guys figure out how to store the data in the tenant form such as complaints and agreements correctly to be able to transfer it to new forms and to be used by different users. Lastly, I would mention that I did the majority of the commits on gitlab as well as most of the comments on the application, so it's easy to understand for everyone.

In conclusion, I would say that I was a very useful and helpful member of the group in my opinion. I enjoyed working on this project even though we faced a lot of difficulties and I am looking forward to my next software project/task.

Stefan Popescu:

This project got me good as in the beginning I was not sure how we are supposed to work as a team in this environment but as time passed by my knowledge increased and as such, I was able to assist the team in many ways. The work was pretty much divided in 2 smaller teams, me and Stefan being one of them. I personally worked on the tenant form part helping with the complaint's category and some issues with events and agreements. The same thing happened to me. When I got stuck, I immediately received help from the other guys or in case they did not have a lot of time I browsed Stack Overflow. Another thing I worked on was a part of the app exceptions and in the end the PowerPoint presentation and the Word report.

The project was challenging as we wanted to provide the maximum amount of quality and functionality, so we ran in lots of bugs or dead ends. Digging deeper and deeper I reached

some points when I was happy, I am growing at such a high speed. I am grateful for this opportunity and I am looking forward to joining more Team Projects. Working together was hard in the beginning but in the end turned out to be a blessing and helped us grow in ways we did not expect at all.

Stefan-Alin Pricopi:

During this project I have been working mainly on the Tenant Form of the App working on the Agreements and Events. While coding the restrains for the two I encountered a big number of challenges which I managed to overcome. Beside working on these 2 functionalities I have provided feedback for my teammates, helping them whenever I could and receiving help when it was needed. Helping Stefan with the presentation and report was also part of my duty.

Dividing the work in 2 teams was one of the best choices we made as a team since it was much easier to communicate and fix the issues because it made the transition from working alone to a group of four much easier. I am eager to start the next project.

Kristiyan Balev:

Working on this project was a blast! After we got on the same page about how we split the tasks between us and when Stanislav was already done with the foundation of the app at a very early stage, everything went smoothly. Since we decided that Stanislav and I will do the "Admin" part of the app, we decided that we need to add a functionality for the tenants to suggest a rule(with which I needed some help from Stanislav). Other than that I made the "Add" and "Remove" functions about the rules, so admins can add or remove the rules who can be only changed IF you are an admin. And the last thing that I was feeling that I needed to do is make the app look more convenient, like a real application. With doing that I faced a number of problems, with most of which I was able to fix.

Overall, I think working on this project in a team was a very good learning experience and I'm looking forward working on a project again.