**Project Analysis**

**The project**

The project consists of improving the processes in a student house using IT implementations. The client is a company that owns multiple student houses and students can rent rooms from the company. Currently, the company needs to go to every house and ask every student if everything is fine and if they need to improve something, and the students oftentimes do not do their assigned chores, but they want these problems solved. For that, they want an IT system.

**The stakeholders**

For this project the students and the company are stakeholders. This is because the students are going to be using the app, and the company is the one that wants to implement the app to improve the situation for the students.

We, the developers, are also stakeholders in the way that we are concerned with the quality of the product we are delivering to our client.

The end-users of our software will be the students living in a specific house and the employee who can access the information from every student house.

**Problems and solutions**

The problems the student house is facing are that appointed people do not clean the shared responsibilities, common groceries aren’t done or paid and garbage disposal is not done on time.

The employee can’t keep up with every local rule and all complaints from the student houses.

The students have to meet with the employee and if necessary complaint.

Our group will make a software solution for the students and the employee. The software program we are making is both a time-saver and useful.

Instead of having the employee see and talk to every student, he will simply log into a program and read all the complaints and rules. This makes it easier for the students in case they are for example not home or sleeping, etc.

He can then take an imminent action against the complaints and he can also add rules if so.

**The tools we are going to use**

* Visual Studio Enterprise 2019 C#
* C# objects
* C# TCP Server
* C# Sockets
* Json Files
* C# Console Application
* C# Windows Forms Application

**The project plan: When we will do what**

GUI will be done on the 16th of December. The 8th of January the student application will be done. The rest of the time we will be using to make the presentation.

The login screen will be done on the 16th of December, and the 16th the server will be set up.

If we are done by the 10th of January, Dima will work on an external server. Colin will look into encryption for the passwords if we are done by this time.

**Task division:**

Dima will work on the server, client connections and logins.

Colin will work on the schedule on the student part.

Beatrice will work on the employee's application.

Robert will work on the student's application.

**The external dependencies**

Some external problems we might face during this project are the standard things, for example, delays originating from illness. Besides that, we might not be able to implement every functionality we want to put in due to a lack of time. We might be able to combat this by setting the deadlines a bit earlier so we have some time to spare to make up on our delays.