

Week 13 – Project analysis

Group members:



Student Housing BV

Objective:

Make a software system that solves the simulated situation

Environment:

Building composed of rooms which are rented by clients and have shared facilities

Problems:

1. Appointed persons not cleaning the shared facilities
A complaint system where people can send an email/message anonymously to the staff if someone does not take part in cleaning the shared facilities
 - The way we solved this problem is by creating a custom google mail account, that is used to gather private complaints sent out from users. The mail gets sent through the complaints tab, automatically converting it into a private message.
 - This way, the staff members can easily access any problems or complaints a person may have and resolve them accordingly.
 - The password and g-mail are:
 - studenthousingcomplaints@gmail.com
 - StudentHousingComplaints
2. Groceries are not done or paid for shared items such as toilet paper, dish soap, etc.
A complaint system where people can send an email/message anonymously to the staff if someone does not pay for shared items
 - For this issue, we have linked the above mentioned tab, where people could simply report on sight and use the google mail system to inform the staff about undone groceries or unpaid shared items.

3. Garbage disposal is not done on time

Timer that displays when the garbage is going to get picked up

- We gathered some information and found out that the garbage is picked up every Monday at 10 am.
- For this issue, we implemented a local clock that synchs with the user and calculates exactly how many days/hours are left until the next garbage pickup, so guests/staff would not miss it.

4. Unannounced parties, gatherings, etc.

Simple place where you can the upcoming events for the week

- For this issue, we created a notifications/event system that lets users/staff create a gathering or meeting. We also connected it to a local data base (a huge chart that can store information and get updated regularly.
- The gatherings are stored and shown forever until deleted by the staff, making it impossible for users to miss.

+ Extra service we want to offer our clients is a software solution to better arrange day-to-day situation and hopefully this will reduce the number of issues they face

+ Application where our clients can record and see agreements made between them, but also the possibility to see the house rules and file complaints anonymously.

+ Every so often we have one of our employees go by the building to update the rules and gather complaints

+ All of these above mentioned problems will be solved by our team, creating a custom software that helps both the staff and guest members with their stay.

What would be considered done?

- When appointed people clean the shared facilities

People can complain when the appointed person does not do their task.

+ Additional: There is some sort of fine for the appointed person not cleaning their task

- When groceries are done or paid for, for shared items

Same as above^

- When Garbage disposal is done on time

A notification sends out 2 hours prior to the trash getting picked up

- When Parties, gathers are announcement at least a few days prior

A place on the software application where everyone can see upcoming event for the week.

You can add events yourself (Must be done 2 days prior to the event date)

Possibly with database

- When you can file complaints anonymously

Same as 1 and 2

- When you can clearly see the house rules

Simple page where you can clearly see the house rules and possible fines for breaking them

Our team and more on our work

Week	Day	Task	Date: D/M/Y	Duration	Person	Who
1	Monday	Submission of analysis and start of development	30/11/2020	4 Hours	Hitesh H	T
1	Monday	Group discussion, Group creation, Brain storm	30/11/2020	2 Hour	Ivan I	T
1	Thursday	Git creation, Worked on project analysis	03/12/2020	3 Hour	Dimitar D	T
1	Sunday	Git development, Wireframe creation, Completed project analysis	06/12/2020	3.5 Hours	Team T	T
		analysis and team disussion about design ideas and functionality	06/12/2020	2 Hours		T
2	Monday	Basic design and base functionalities	07/12/2020	2.5 Hours		I
2	Tuesday	Meet up and create login system	08/12/2020	4 Hours		H
2	Tuesday	Create a page with house rules	08/12/2020	2 Hour		D
2	Friday	Implement private/anonymous complaints	11/12/2020	3.5 Hours		H
2	Friday	Team gathering for discussion, and touch up design and usability	11/12/2020	4 Hours		T
3	Monday	Global announcement system	14/12/2020	4 Hours		I+H
3	Monday	Create an algorithm that will calculate what each person needs to pay this month	14/12/2020	3 Hours		I
3	Tuesday	Implement a timer system that sends out a notification 2 hours before the trash gets picked up	15/12/2020	4 Hours		D
3	Friday	Design and usability improvements	18/12/2020	4 Hours		T
3	Friday	Team gathering and discussion of further plans	18/12/2020	4 Hours		T
4	Monday	Create a sysytem where you can plan gatherings/partys etc		5 Hours		I+H
4	Friday	Team discussion on further possible solutions		3 Hours		T
			21/12/2020	5 Hours		
5	Monday	implementing further solutions		5 Hours		T
5	Rest of week	Preparation to present our work				T

- The above shown chart displays how we have spread out our workload throughout the 5 weeks.

Some of the challenges our team had to go through:

Some of the work took longer than other parts of our software solution.

Here is what we considered to be the hardest of a challenge:

- Creating proper GUI and interactive design alongside it.
- Implementing a proper clock that syncs with the user
- Creating an easy solution for connecting the database with the application

Things that could be improved

- The database functionality could be implemented in a better, more efficient way
- Some touch ups on the design part
- General usability

Our team thanks your company kindly for choosing us as their software provider.

Despite the challenges we faced, the solutions we have provided were a learning curve and we hope that they satisfy your needs and cover all above mentioned problems.

We hope to work together again,

- Software Digital Limited.