

P L A N

Software solution for
student housing

ICT & Software Engineering - Semester 1
Class: P-CB-S01
Group: 1
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Introduction to the problem / assignment

1. Project background

Student Housing BV offers accommodation to students in the Netherlands. They have different buildings with private rooms and shared facilities like kitchen, bathroom, hallway, etc.

2. Problem definition

Student Housing BV has been facing some issues with students that do not do their duties. Some students report others for not cleaning the bathrooms/toilets..., not paying the shared items (toilet paper, dish soap..), organizing parties without announcing, and many others.

3. Project goal

The project goal is to help Student Housing BV to create an efficient way for students to plan their day-to-day activities, using IT solutions!

In the planning you can find all the deliverables required for the successful software solution.

4. Expected result

We are going to make an application for the Student Housing BV clients in which they will be able to see the house rules so they can follow them. They will also see and add complaints and announcements. The duties they have to do will be visible to them and they will be able to mark when 'done', otherwise they will receive penalties. There will be a personal wallet for every student, in which they will be able to deposit money. This money will be used to pay for the shared items. Moreover, there will be a contact page with a chat with common questions that students can send to employees.

5. Constraints

This project will be a Windows Form Application and the programming language used for it will be C#. GitLab will be used for sharing code between team members.

6. Way of working

The project group consist of 2 students.

Total budget for the project is 144 hours per week (12h/per person/per week)

Before starting, it is important to keep a few rules in mind:

- All students must participate in creating the project
- Each student must participate in the decisions that are made

Week One

Work for the week:

Activity name:	Create a group and a project plan	Delivery date:	04/12/2020(Friday)
Input:	N/A		
Budget:	12/h per person per week		
Activities:			
<p>We made a group of two and created a group on Canvas under the number 1. This group is going to work on the project for the advanced phase of semester one. We also created a group repository.</p> <p>Before starting to work on the project we made a project plan to summarize and distribute the work for each of the given weeks.</p> <p>We started writing a report - documenting all the work done throughout the weeks. Additionally, we made sketches and mock-ups of the project in mind.</p>			
Responsibility:			
<ul style="list-style-type: none">• Veronika Valeva<ul style="list-style-type: none">✓ Sketches• Stela Trencheva<ul style="list-style-type: none">✓ Mock-up			
Output:	<ul style="list-style-type: none">- Group of two- Project plan- Repository- Sketches- Mock-ups		

- Self-check at the end of the week – Check the work done / Check the unfinished processes

Week Two

Work for the week:

Activity name:	First pages for the c# application	Delivery date:	11/12/2020(Friday)
Input:	- Project plan - Sketches - Mock-ups		
Budget:	12/h per person per week		
Activities:			
<p>Having made the examples (sketches and mock-ups) of the windows forms, now they can come to life. We start with making a log-in page. Right after the log-in page we start constructing the main menu of the application. After that we proceed with the profile page of the user (the student or the employee) and the main menu for the different accounts (student / employee account).</p> <p>Next thing is to make a form for the house rules. (For the employee accounts it would be possible to edit the house rules). The last thing for this week is to make a personal wallet for the student's account that keeps track of the students spendings.</p>			
Responsibility:			
<ul style="list-style-type: none">• Veronika Valeva<ul style="list-style-type: none">✓ Make login page✓ Make a window with the house rules for students• Stela Trencheva<ul style="list-style-type: none">✓ Make student and employee profile pages, and menu✓ Make a form in the employee profile where they can update the house rules✓ Make a wallet for every student			
Output:	- Log-in page - Main menu - Profile pages for students and employees - Page for house rules - Students wallet		

- Self-check at the end of the week – Check the work done / Check the unfinished processes

Week Three

Work for the week:

Activity name:	New pages for the c# application	Delivery date:	18/12/2020(Friday)
Input:	<ul style="list-style-type: none">- Log-in page- Main menu- Profile pages for students and employees- Page for house rules- Students wallet		
Budget:	12/h per person per week		
Activities:			
<p>Having the pages from last week, now we can proceed with making new forms, expanding the main menu, and building up the whole application. This week we will create a complaint form for students to share their complaints with other users of the student housing. The next thing in our plan is to make a form showing all the student tasks and a pop-up window that appears from time to time – reminding the students of their tasks. We will create a penalty page which will be activated after the time for a task end and the task is still unfinished.</p>			
Responsibility:			
<ul style="list-style-type: none">• Veronika Valeva<ul style="list-style-type: none">✓ Make complaint filling form for every student which they can fill anonymously✓ Make a window where students can see the complaints✓ Make a pop-up window that appears from time to time to remind that the student have tasks to do• Stela Trencheva<ul style="list-style-type: none">✓ Make a page with all the tasks a student have to do and info for every task (how much time they have until they receive a penalty, how much they have to pay, etc.)✓ Make a form where students can update the tasks they have done			
Output:	<ul style="list-style-type: none">- Complaint form- Task page- Pop-up reminder for the unfinished tasks- Penalty page		

- Self-check at the end of the week – Check the work done / Check the unfinished processes

Week Four

Work for the week:

Activity name:	New pages for the c# application	Delivery date:	08/01/2021(Friday)
Input:	<ul style="list-style-type: none">- Complaint form- Main menu- Task page- Pop-up reminder for the unfinished tasks- Penalty page		
Budget:	12/h per person per week		
Activities:			
<p>Based on the work from past weeks, now we will build above and further expand the student housing application.</p> <p>Our first job is to create an announcement page where students and employees can announce different events like parties, building meetings and such things. We will add a very important feature – a COVID-19 information page.</p> <p>The next thing is to make a contact page with pre-defined questions – regarding the personal / individual topics.</p> <p>Lastly, we will make a page for common questions – not as specific as the pre-defined questions in the contact page.</p>			
Responsibility:			
<ul style="list-style-type: none">• Veronika Valeva<ul style="list-style-type: none">✓ Make a common questions page for students/employees• Stela Trencheva<ul style="list-style-type: none">✓ Make announcement page where students/employees can publish their announcements✓ Make COVID-19 page where students can request a test and be quarantined			
Output:	<ul style="list-style-type: none">- Announcement page- COVID-19 information page- Common questions page with pre-defined questions		

- Self-check at the end of the week – Check the work done / Check the unfinished processes

Week Five

Work for the week:

Activity name:	Wrap up the whole project	Delivery date:	15/01/2021(Friday)
Input:	- All pages from last weeks - Report		
Budget:	12/h per person per week		
Activities:			
This week’s objectives are to wrap the whole project up. To finish all the task left from last week (if any). Run final test on the application. To finalize the documentation and to create a presentation showcasing all of our work.			
Responsibility:			
<ul style="list-style-type: none">• Veronika Valeva<ul style="list-style-type: none">✓ Make manage accounts page for employees• Stela Trencheva<ul style="list-style-type: none">✓ Make change room page			
Output:	- Manage accounts page - Change room page - Finished working application - Project documentation - Project presentation		

- Self-check at the end of the week – Check the work done / Check the unfinished processes

Week Six

Work for the week:

Activity name:	Project presentation	Delivery date:	18-22/01/2021
Input:	- Finished working application - Project documentation - Project presentation		
Budget:	12/h per person per week		
Activities:			
Last weeks objective is to present the work done for the past five weeks.			
Responsibility:			
<ul style="list-style-type: none">• Veronika Valeva<ul style="list-style-type: none">✓ Present the project• Stela Trencheva<ul style="list-style-type: none">✓ Present the project			
Output:	- Hopefully an outstanding grade		