No Brain No Pain

ChadList

Chiril Luncașu (315171), Dan Sebastian Ceapă (315162),

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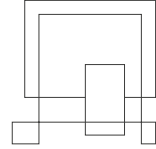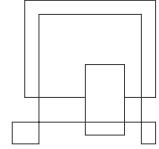**Software Technology Engineering**

Semester 3

22/09/2022

Version: 0.1

Table of content

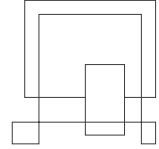Appendices (including Group Contract)

1. Background Description

Today everybody can agree that the amount of waste from all categories of products is just unbelievably huge. The project taken on by the team strives to lower the amount of waste that is being produced yearly.

There are out there a lot of web sites who are doing the same thing but, a lot of those web sites run only in specific countries, there is a chaos when it comes to what you are searching for and what you are getting, you cannot search the online shop without an account, very often it happens that the products that are being displayed are not well described and do not provide any useful information for the buyer.

Currently eBay is one of the biggest online second-hand shopping sites but, at the moment it is only available in 25 countries (Anon., 2022b), which is not ideal for the end-user since sometimes the cost of shipping is the same as the product you are purchasing. On the other hand, eBay supports payment by card, PayPal, PayPal Credit, Credit card or debit card, Apple Pay and Google Pay, and, it also has options for delivery, if the buyer is cannot pick-up the item in person (Anon., 2022c, Anon., 2022e).

On the other side Facebook create Facebook Marketplace which is available in a lot more countries compared to eBay but, its lack of organization, lack or false information about the product and the fact that the end-user must have an account in order to shop on the website makes it very annoying and frustrating to navigate. Facebook does not support any of the payment types that eBay has, but it has a useful map in case the seller does not want to show his address to the public, which helps with confidentiality. Unlike eBay, Facebook Marketplace does not support shipping, but since the website requires you to have an account, you can message each other instantly with a click of a button.

Finally, is Craigslist which is a very popular alternative to eBay or Facebook Marketplace. It is available in most of the countries, the end-user can navigate the website without an account but, the website in the team's opinion looks very ruff, very complicated and a lot of the items that are posted do not contain precise information and that is without mentioning that the website does not have a search bar that can

search through all the categories at the same time. To be mentioned is that Craigslist does not have either payment support or shipping support.

All the websites mentioned above have policies regarding selling forbidden items (Anon., 2022a, Anon., 2022d). For example, eBay has restrictions when it comes to adult items, alcohol and many more, Facebook Marketplace has restrictions for selling Pets, drugs and many others.
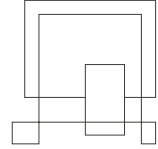
2. Problem Statement

A User wants to either sell their item or buy an item they want through a website. The user needs to be able to chat with the seller or if the user is selling an item to be able to be contacted.

1. How to make the website to not be used for selling illegal items.
2. How to make users be able to communicate with each other when buying or selling
3. How to make the website available to everybody around the world.
4. How to enable users to buy items with or without an account.
5. How to make the website easy to navigate and organized.
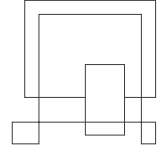
3. Definition of purpose

The purpose of this project is to help the users of the system sell items they no longer use or need and buy items they would like to own but cannot afford or do not want to pay full price for.
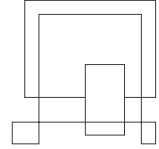
4. Delimitation

- We will not make a map to see where the seller is selling their item.
- We will not make a function to ship items through our website.
- We will not make transactions through our website.
- We will not allow users to sell without and account.
- We will not use complex recognition for illegal items.
- The website will only have the ".com" domain.
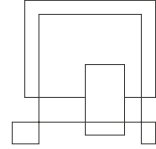
5. Methodology

A decision was made that for the development process, we will use a combination of Scrum and Unified Process while following the Agile manifesto.

Scrum will be used to divide the time working on the project into a fixed period of time called sprints. In our case, each sprint will be 5 days long.
In a sprint the requirements chosen to work on will be split into smaller tasks, that the
development team work on independently, therefore each member will assign task to himself.

Apart from that a Daily Scrum meeting will be held every day for a maximum of 15 minutes (usually online), where every team member will give feedback about the task they have been working on, also what is going to be done next and what problems will be encountered.

A Burndown chart will be created and updated every day, during the daily sprint meetings for each of the sprints, therefore the team will be able to keep track of how ahead or behind they are in the particular sprint.
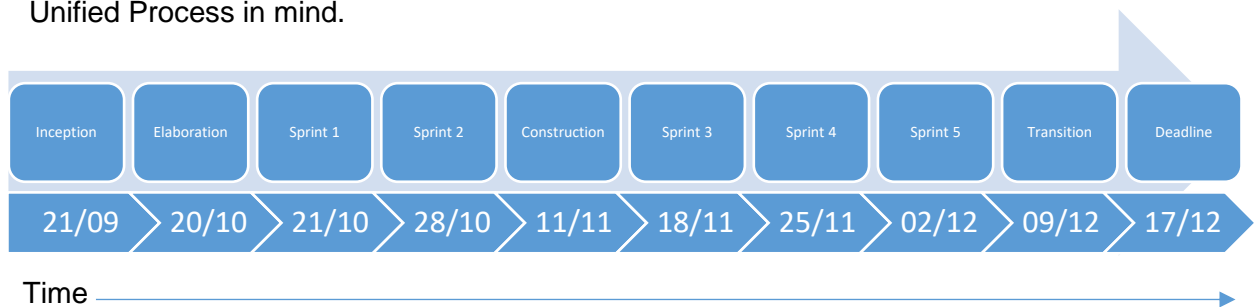
There will also be assigned role of Product Owner and Scrum Master for two of the members of the team. The Product Owner will be responsible for the final product, and
he will test it after each sprint. The Scrum master will be responsible for the work going
as smoothly as possible. His responsibilities include: updating the Sprint backlog and the Burndown chart during each daily meeting and booking rooms for when the team meets.

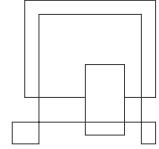The Unified Process (UP) phases Elaboration, Construction and Transition will be utilized in each of the sprints. For each requirement, the team will first create diagrams and design (Elaboration), then the database will be updated, classes necessary to implement requirement as well as testing if all of the implementation work as it is supposed (Construction) to make a working feature/part of a system (Transition).
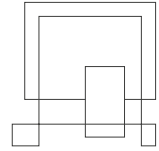
6. Time schedule

Given that the expected workload is 27.5 hours per ECTS per student, we will be working a total of 275 hours per person in the group. This amounts 1375 of hours of work in the project. The workload will be spread out with the Scrum methodology and Unified Process in mind.

Inception	Elaboration	Sprint 1	Sprint 2	Construction	Sprint 3	Sprint 4	Sprint 5	Transition	Deadline
21/09	20/10	21/10	28/10	11/11	18/11	25/11	02/12	09/12	17/12

Time

7. Risk assessment

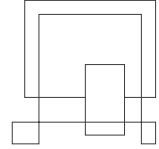| Risks	Likelihood Scale: 1-5 5 = high risk	Severity Scale: 1-5 5 = high risk	Product of likelihood and severity	Risk mitigation e.g., Preventive- & Responsive actions	Identifiers	Responsible
Logical Flaws	3	5	15	Coding in pairs, and plenty of testing.	Logical flaws – the program does not work as intended.	Dragos
Database problem	4	4	16	Having a weekly backup from the database with essential information for the program.	Program cannot fetch information from the database	Chiril
Loss of data	5	5	25	There should be a copy of the code to use as backup in case the main website and application fails.	Website and application failure.	Dan
Server goes down	3	5	15	Checking the server host, check if there is not an unknown IP address, and switch to an alternate host until the main host is resolved.	If no server identifier is set, the DHCP server sets the server identifier based on the primary interface address used by the server to receive a client request.	Tomas, Matas
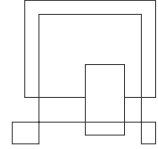
8. Sources of Information

Anon. 2022a. *Facebook Marketplace Rules for you to know before putting up anything on sale | Apps*. [online] Available at: <https://www.republicworld.com/technology-news/apps/facebook-marketplace-rules-for-you-to-know-before-putting-up-anything.html> [Accessed 24 September 2022].

Anon. 2022b. *List on International eBay Sites*. [online] Available at: <https://galaxy.maropost.com/s/article/list-on-international-ebay-sites> [Accessed 24 September 2022].

Anon. 2022c. *Payment methods policy | eBay*. [online] Available at: <https://www.ebay.com/help/policies/payment-policies/payment-methods-policy?id=4269> [Accessed 24 September 2022].

Anon. 2022d. *Policies on restricted or prohibited items – overview | eBay*. [online] Available at: <https://www.ebay.com/help/policies/prohibited-restricted-items/prohibited-restricted-items?id=4207> [Accessed 24 September 2022].

Anon. 2022e. *Shipping and delivery for buyers | eBay*. [online] Available at: <https://www.ebay.com/help/buying/shipping-delivery/shipping-delivery-buyers?id=4005> [Accessed 24 September 2022].

Appendices

Group Contract

Group Name: No Brain No Pain (NBNP) Date: **10/09/2022**

These are the terms of group conduct and cooperation that we agree on as a team.

Participation:

We agree to participate in all the tasks, work hard, socialize with each

other and feel good while working.
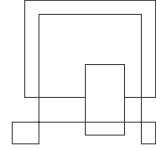
Communication:

We agree to communicate mainly on physical meetings and on Discord. Alternatively,

we will use messenger and ultimately phone calls

Meetings:

We agree to meet on every Wednesday with some exceptions and with consent from

every member we shall meet at least one more time per week.

Conduct:

We agree to be active in the group, willing to work and finish tasks before the deadline.

We shall vote every idea of any members to have the satisfaction of being heard.

Conflict:

If we get into argues, we shall end the conflict at once and stop it from escalating.

Deadlines:

Every member agreed to be active and respond before each deadline with their work.

Other Issues:

We agree to try to prioritize distributing tasks more, and, in as equal manner as possible.

Group member's name	Student number	Signature
Chiril Luncașu	315171	
Matas Armonaitis	315263	
Dan Sebastian Ceapă	315162	
Dragoș-Daniel Bonaparte	315261	
Tomáš Greš	315185	