

# Cmpe352 - Milestone Report

Spring 2020

## CAROUSEL

Afra Akbaş  
Ali Alperen Durak  
Burak Berk Özer  
Göksu Başer  
Nursima Çelik  
Oğuzhan Özboyacı  
Onur Enginer  
Ömer Topuz  
Yasin Kaya

## Contents

<b>1</b>	<b>Executive Summary</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Project Status . . . . .	2
1.3	Plans for Moving Forward . . . . .	3
<b>2</b>	<b>List and Status of deliverables</b>	<b>4</b>
<b>3</b>	<b>Evaluation of the status of deliverables</b>	<b>4</b>
3.1	Our Repositories . . . . .	4
3.2	Requirements . . . . .	4
3.3	Story and Mock-Ups . . . . .	4
3.4	Design Diagrams . . . . .	5
3.5	Project Plan . . . . .	6
3.6	RAM . . . . .	6
<b>4</b>	<b>Evaluation of tools and processes</b>	<b>6</b>
<b>5</b>	<b>A summary of work done by each team member</b>	<b>8</b>
<b>6</b>	<b>Requirements</b>	<b>12</b>
<b>7</b>	<b>Scenarios and Mockups</b>	<b>12</b>

# 1 Executive Summary

## 1.1 Introduction

Carousel is an e-commerce platform that has different kinds and numbers of products for sale. Users can sell or buy products online for free. Our motivation is to provide our users with a well-designed, safe, and convenient online platform in the e-commerce area. The platform supports Android, and Web so that it is available on both mobile and the web. We also take into consideration ethical concerns while designing our platform. Therefore, we follow the rules of KVKK and GDPR and the standards of W3C as a software project.

Carousel supports several functionalities, and these functionalities differ from user types. There are four types of users in our platform, which are guest, customer, vendor, and admin users. Guest users are the users who did not register the system yet, but they can still buy a product. They can filter products and sort them according to their preferences. After they buy a product, they can also rate the product and comment on it. Customer and vendor users are the registered users of our project. Customer users can do anything that a guest user can do. In addition to that, they can create lists, add products to them, and get notifications about a product if they want to. Vendors are retailers who add their products to our platform to sell them to other users. They can add their products and their descriptions, which can be Turkish or English, for sale. Admin is the last type of users in our platform. They are also registered users who manage the platform.

Until now, we design our platform in detail. We specified the requirements, both functional and non-functional, and desired outcomes of the system. Then, we created scenarios and mockups for different users and different situations, which helps us to validate requirements.

For more information, further sections have detailed explanations.

## 1.2 Project Status

At the beginning of CMPE 352 course, we are not experienced about design issues. We are a team of nine people with different ideas and thoughts about given tasks. At first we all discussed about tasks and made a joint decision. Afterwards we divided each task into sub-tasks and tried to give responsibility to every member of team. Some tasks were challenging, so that they were assigned more than one person.

Each Thursday we have regular meetings. We talk about current issues about our project, what we did last week, what we will do next week and how to distribute the given tasks. We assign each task to someone and decide about

a deadline for each task. Everyone comes forward for every task and does the tasks before the deadline.

First we need to be in contact every time, so we focus on communication and create communication plan, create groups on different communication platforms. Then we focus on our project and decided about the requirements. We created mock-ups and scenarios. We made customer meeting and rearranged requirements considering the customer's wishes. Then we focus on mainly on design and create use case diagram, class diagram, sequence diagram. We also have decided our platforms name as "CAROUSEL".

### **1.3 Plans for Moving Forward**

We have worked on abstract issues until now. From now on, we will focus on more concrete subjects. We will decide about our project plan to know the time a task will be finished. We are going to discuss about the tools and frameworks, which might be useful for us. We will decide language preferences for the project and decide about who will work on mobile, frontend and backend.

## 2 List and Status of deliverables

Name	Delivery Date	Status
Repository Arrangements	Feb 18, 2020	Finalized
Requirements Elicitation	Mar 8, 2020	Finalized
User Story and Mock-Ups	Mar 3, 2020	Finalized
Class Diagrams	Mar 24, 2020	Finalized
Use Case Diagrams	Mar 24, 2020	Finalized
Sequence Diagrams	Mar 24, 2020	Finalized
Project Plan	Apr 21, 2020	On Progress
RAM	Apr 21, 2020	Finalized

## 3 Evaluation of the status of deliverables

### 3.1 Our Repositories

We designed our personal repositories and our project repository in a way that we and our project look presentable to the customer. We clearly stated our personal communication information and our short biographies in personal repositories. For the project repository we choose a name, designed a project logo and put a photo of our team together.

### 3.2 Requirements

Writing requirements from scratch was complicated at first. The most updated deliverable in our project is our requirements because of that. We updated according to the feedback coming from our customer and also while designing stories an even while designing class diagrams we needed to make necessary changes in it. Final product is finalized with the last feedback from customer. In the proceeding periods of project design it most likely will be updated or upgraded again.

Requirements is our map in design. In all of other designs of the project we always make them fit according to the requirements.

### 3.3 Story and Mock-Ups

We created 3 different personas to simulate usage of our project. In this 3 personas users interact with the system in various ways (a customer returning a product, a vendor answering a message, a customer buying a product). These scenarios then put into mock-ups to show how system look while these interactions. Those updated with the feedback after the initial design. Purpose of these was to show what will happen in the different user scenarios.

### **3.4 Design Diagrams**

Diagrams are done via task sharing. We designed first use case diagram then class diagram and lastly sequence diagram. It is done sequentially because every design is dependent one after another. After design we reviewed designs with the coming feedback.

With the diagrams in hand we can now have a more clear pathway in the project in terms of coding and software developing.

### 3.5 Project Plan

### 3.6 RAM

## 4 Evaluation of tools and processes

- **Slack:** Slack is our main communication app that can easily integrated with many different apps. It is used widely by professional teams around the world. We have several channels for different topics that helps us to identify each problem or update in a classified manner. We are still in the learning phase, therefore we can not use its all features easily.
- **Discord:** We are using discord while we working as a group with 2 or more members. It allows us to communicate and take decisions fast during finishing assignments, thanks to its voice channels.
- **Google Hangouts:** Due to the pandemics, we are not able to held our weekly meetings in person. Therefore, we switched to the Google Hangouts for our weekly meetings. In addition to video and voice sharing, it also has screen sharing which can be helpful during meetups.
- **WhatsApp:** During the emergent situations, we are using WhatsApp to receive quick responses. But, since it does not support to have multiple channels, it is very easy to miss some important messages. Therefore, we try to avoid using it.
- **GitHub:** GitHub is where our all works done get together. We keep ourselves up to date by following our wiki page. Also, it has some great features for tracing individuals. For example, by checking GitHub's commit history we are able to track each individual's efforts to the project. Also, using issue system we can easily identify the undone issues, prioritize them and then focus on them.
- **ProjectLibre:** We are using ProjectLibre to maintain our Project Plan. It allows assigning start date, finish date, resources (people in our case) or predecessor task to a specific task. It also shows a Gantt Chart with tasks which is crucial for team management. But, it is not user friendly to use. It works slowly and transferring data from one external app to ProjectLibre is not easy as expected.
- **Processes While Managing Project:** Firstly, we read weekly assignments during the meeting. Then, we try to divide the tasks into independent tasks. After that, we assign one member or group of members to each tasks. We leave the decision of communication channel (Discord, Hangouts, etc.) to groups. After finishing tasks, we try to rearrange the groups in a way that there is at least one member that knows the task

and one member that is new to task. In that way, we are hoping to keep everyone up to date. It works good in theory, but in reality grouping people sometimes does not work. People in groups may tend to wait until somebody to take action. And when nobody takes action, we are not able to finish tasks by complying deadlines.



## 5 A summary of work done by each team member

### Afra Akbas

- I take meeting notes in all meetings and write them onto the related meeting pages.
- I designed our general wiki page, such as creating a sidebar, adding pages into the sidebar, and emoji.
- I created the Scenario-1 with Nursima. I came up with an idea, and Nursima made enhancements in persona. We added related actions and criteria.
- I made a review of the non-functional and user requirements.
- I prepared mockup-3 with Yasin. To more specific, the shopping cart page, the log-in page, and the pages for sorting and filtering for the product was my part.
- I added some answers from the customer after the customer meeting.
- I created the Use Case diagram. After the feedback, Ömer and I made changes.
- I took part in the creation of the project plan with other team members. I prepared the finish times of some events.
- I wrote the executive summary part in Milestone Report -1 with Oğuzhan. The introduction is the part of that I wrote.

### Alperen Durak

- 

### Burak Berk Özer

- I created labels for the github issues.
- I maintained the issues with time and explained to team how to use them.
- Took part in creation of glossary of the requirements.
- Kept the glossary up-to-date after each feedback and enhancements of the requirements.
- Joined a meeting with the customer and helped team better understand the project by taking part in communication.
- Created mockup 2 with the help of my co-assignee.

- Designed the class diagram with 3 other group members. We put together a general desing by holding a meeting, then splitted classes among us. Completed my assigned functions then after taking another meeting, finished the class diagram.
- Took the task of compiling deliverables.
- Updated summary of work done of Milestone-1 Report.

#### **Göksu Başer**

- In the start of the project, my first job was to design my own wiki page and research about GitHub and its repositories.
- Opened a pool for the usual meeting time and created the slack team for the team communication.
- Next week my job is the design a general outline for the requirements. After that, we can share the individual parts with the group.
- The week after that I've reviewed non-functional requirements according to the first feedback.
- Created a poll for the group name selection but the poll is failed.
- The proceeding job of mine was to create a class diagram with 3 other group members. We together designed it and after the general outlines, we shared classes to write their functions.
- The next week I've reviewed system requirements with the newest feedbacks.
- The week after that I was assigned to make a poll for the group name again but that job is re-assigned with the group consensus but after the name selection, I've designed the logo of our team named "Carousel".
- Last week I am writing in the first milestone "List and Status of deliverables" and "Evaluation of the status of deliverables" parts and also writing this summary of my jobs until now.

#### **Nursima Çelik**

- In the beginning, I took part in specialization of wiki page. I added some information about our group including a photo to README and edited sidebar.
- I did my research on github and good github repositories.
- In the software specification part, I mostly engaged with user requirements. I attended a meeting with the customer and asked our questions. I edited user requirements regarding these answers and subsequent feedbacks.

- I worked on user scenario #2, mockup #2.
- For design of the project, I participated in creating sequence diagrams, and project plan with my teammates.
- Lastly, I tried to find some ways that everyone can participate equally. For this purpose, I contacted with my teammates personally, or redistributed issues in some cases.

#### **Oğuzhan Özboyacı**

- I prepared the communication plan with Yasin and Onur.
- I wrote admin and guest user requirements with Ömer.
- I reviewed system requirements.
- I created customer scenario 3 with Onur.
- I created mockup 2 with Nursima.
- I created class diagram with Göksu, Burak Berk and Yasin.
- I created project plan with Afra, Onur, Nursima and Yasin.
- I wrote the executive summary part in Milestone Report -1 with Afra.

#### **Onur Engineer**

- First task I had was to prepare a communication plan.
- Then I did research on some GitHub repositories.
- As for our requirements, I wrote the initial version of our system requirements, then I also edited some parts of our user requirements according to feedback we got from our customer meeting.
- I participated creating user scenario #3.
- In design part of our project, I created some of the sequence diagrams.

#### **Ömer Topuz**

- I prepared the questions page inside the wiki page and made the second scenario (Altan Doğuş).
- I helped to fix sequence diagrams after feedback is given.
- Also participated in the review of class diagrams.

#### **Yasin Kaya**

- I prepared the Communication Plan and after some reviews trying to keep it up to date.

- Wrote the Non Functional Requirements.
- I have prepared the Mockup 3 with Afra. Specifically, I designed home-page, detailed page of a product, comment page, getting address information page and confirmation of the product page.
- I was in the group that works on Class Diagram. After deciding which classes to have, I wrote user related classes (Customer, Vendor, Registered User, Guest User, Admin User). After everyone finished his/her own part, we reviewed the whole class diagram as a group.
- Then I worked with Sequence Diagram team to clarify some of our functions and updating them if necessary.
- Given the dates of tasks and assignees, I created the ProjectLibre file and filled it.
- I prepared the Evaluation of tools and processes in the Milestone-1 Report.

**6 Requirements**

**7 Scenarios and Mockups**