

Milestone Report

Executive Summary

Project Description

Our project is an e-commerce platform for everybody who wants to buy or sell products online. Main goal of this project is to implement such an online e-commerce application both for web and Android platforms. The name of our e-commerce platform is bupazar.

Bupazar's functionalities changes for various user types. A non-registered user is a guest user. Guest users can only view, search and filter the products, view the ratings and comments given to the products and add the products that they want to buy to the shopping cart provided by the system; however, they cannot buy any of those products, make comments and give ratings, and they also cannot send messages to people who sell the products i.e. vendors. A registered user can either be a customer or a vendor, but a user cannot be both types of users in a single account. In order for a user to buy and sell products via our platform must sign in from different accounts. Registered users must sign up to the bupazar. Registered users can use all the functionalities that the platform offers to guest users. In addition to those, customers can give credit card information and shipment address to the platform, buy products and make comments and ratings to the products which they buy. They can create custom private lists of products for different purposes and see their purchase history, and create notifications for themselves to remind them some events such as when the a product is restocked or there is a discount for some products. Customers can also see some recommended products by the system itself. Vendors, on the other hand, must provide their address of operation as well as the stock status of the products they sell, take orders from the customers and send those via a cargo firm. Both customers and vendors can trace the shipment of the products. Both vendors and customers send messages via the chat functionality of the platform in order to get or give additional information to each other. Both customers and vendors can receive notifications when they receive a message or when there is a change in the shipment status of the products.

Last but not least, while implementation of the bupazar platform, W3C standards for web must be followed and the ethical considerations must be taken into account. Privacy of all users are important. Bupazar platform requires for customers and vendors to share some personal as well as payment, credit card and bank account information with the system so that the purchases and the shipments are done. Therefore, during sign up phase, the system asks both customers and vendors to accept the terms of use document that follows all the rules that GDPR and KVKK oblige. All registered users are expected to read the that document before signing up.

For more detailed information and functionalities, please refer to Project Requirements section in our GitHub wiki page.

Project Status

First, as the group members who are chosen randomly, we got to know each other. Fortunately, most of our group members were friends so this was an advantage for us in case of communication and team chemistry. Then we oriented ourselves with our Github repository. We prepared our communication plan, decided on the issue labels, created Slack workspace and determined the weekly meeting day. We decided to use Whatsapp and Slack for communication. Each one of us researched some interesting repositories and documented them by providing their references and describing what we liked about them.

Second, we started to specify the project requirements such as functional and nonfunctional. We attended a customer meeting session and we updated the requirements according to the customer's feedback. We spent a few weeks working on the project requirements until we sure that it met with the customer's demand. We continued to update the requirements as we progress. We added a glossary part to make requirements easier to understand.

Third, we created user scenarios and mockups related to these scenarios. Thanks to these scenarios, we learned to think from the user's perspective and mockups gave us a better understanding of what our project is going to look like. After that, we determined the logo and the name of our project.

Fourth, we started to work on software design of the project. We prepared project diagrams in an object-oriented manner to shed light on how the project will be done. These diagrams are consisting of use case diagram, sequence diagrams and class diagram. Since software design is one of most important parts of the project, we spent a 2-3 weeks working on it.

Last, we prepared our project plan which also includes the future part of the project. We created the RAM (Responsibility Assignment Matrix) to see each person's responsibilities and contribution to the project. We revised what has been done each week and discussed if there is anything to be add or change. Each one us documented our contribution to the project. So far, we can proudly say that we overcame the difficulties encountered during the process and completed all of the duties.

Moving Forward

We plan to continue with our project design without losing our passion and enthusiasm. We already prepare our project plan. Even though we are planning to stick to the project plan, we will make the necessary changes when needed. We will continue to meet up regularly and evaluate our work together. Although we have decided on some API and environments to be used in the project, we will keep ourselves up to date on the developing technologies. Planning is a must, however, we know that there will be some crisis time during implementation. As in all areas of life, we will face crises in this area. To overcome these crises easily, we will prepare a crisis plan against the problems that may arise at the points we consider important. With the help of lectures and our experiences in the work field, I think we can easily implement our design. We aim to implement the platform: back-end, front-end, and Android parts. In the end, we believe that a great product will surface and every team member will feel proud of their contribution to such a great project.

List and Status of Deliverables

Deliverable	Status	Update Frequency	Description
1- Github Issues	In Progress	As improvement needed	Issues,Labels about project
2- Github Wiki	In Progress	Daily	Documentation for the project and up-to-date information that others learn about it
3- Meeting Notes	In Progress	Weekly	Contents of meeting about project on wiki page

Deliverable	Status	Update Frequency	Description
4-Requirements	Complete	As improvement needed	Conditions and capabilities that is satisfied by project
5- User Scenario & Mockups	Complete	As improvement needed	Visual project mechanism design according to customer uses
6- Design Diagrams	Complete	Per feedback for now	Internal mechanism of project
7- Project Plan	In Progress	As improvement needed	Inclusive project plan

Evaluation of the Status of Deliverables

- *Github Issues* : After the meeting, everyone create their own issue to inform the other group members about the process of their design. The person who created a issue cannot close the issue without asking the communicator. You can reach our current issues in issues page on github.
- *Github Wiki* : Every week after completing the our weekly tasks we upload them and update the our wiki page to see the overall project progress.
- *Meeting Notes* : Every week we are taking the meeting notes to specify the action items and agenda and you can see the whole meeting notes so far in our wiki page.
- *Requirements* : We completed all the requirements of our project and we will use them during the implementation of the project.
- *User Scenario & Mockups* : We design some mockups according to the user scenarios to show what our project is going to look like. They all are accessible in our wiki page.
- *Design Diagrams* : We have created some diagrams according to requirements but they might be updated as we move on implementing.
- *Project Plan* : All the things requirements, class diagrams, user diagrams etc. are the component of project plan and we keep them in a single header as project plan.

Evaluation of Tools and Processes

GitHub: GitHub is our main platform where we develop our project, control our progress with issue management and document our deliverables. As we get more work done through the process of our project, we are getting more skilled at using GitHub.

Slack: Slack is used for communicating. Channel options and integrating it with other platforms are helpful features.

Zoom: Zoom is used for online meetings. It helps us to stay connected during this Covid19 quarantine period.

Balsamiq: Balsamiq was used for mock-ups. It is easy to use and collaborate on, and also can be used for lots of purposes.

Lucidchart: Lucidchart was used for design diagrams. It is really practical and easy to use. However, free version is very limited. We used the free trial to get our main work done and import/export features to edit our diagrams later.

ProjectLibre: ProjectLibre was used for Project Plan. Getting used to it was somewhat challenging, and some features(duration, dates etc.) really caused us a lot of work. Though, the template is nice and the end product is sufficient.

Table of Work Done by Each Member

Member Name	Contributions
Kayacan Vesek	<ul style="list-style-type: none"> • Creating cards and assigning tasks to each team member in Trello • Creating personal Wiki page • Searching Favorite GitHub Repositories • Prepared the draft(subtitles, subgroups of requirements) of the Requirements Page on Wiki • Created requirement page issues for each team member specifying the sub-header they are responsible • Created Mockups for scenario 2 • Set up a meeting with customer • Attending the Customer meeting • Created the class diagram structures(I named the classes and created the relationships between them) • Project Plan - 3rd part • Put together Milestone1 report and all deliverables

Member Name	Contributions
Emre Hoşer	<ul style="list-style-type: none"> • Create the slack workspace for Group 5 • Creating personal Wiki page • Searching Favorite GitHub Repositories • Creating new labels on the GitHub repo • Creating a template of a wiki page that includes Github researches of group • Preparing the requirements vendor and customer specific interaction part • Creating a couple of questions for our customer meeting • Creating the scenario 1 (guest scenario) persona, goals, story and scenario • Creating mockups of register, shipping, payment, verification and completed page mockups. • Attending customer meeting, asking the questions • Designing project logo • Creating a couple of sequence diagrams • Creating Responsibility Assignment Matrix (RAM) • Creating deliverables table for Milestone-1
Volkan Bulca	<ul style="list-style-type: none"> • Creating the Group 5 Wiki homepage on GitHub • Creating personal Wiki page • Preparing the Security part under system requirements • Creating a couple of questions for our customer meeting • Attending the Customer meeting • Creating scenario 1 for the guest user • Creating mockup for scenario 1 • Designing Class Diagram • Creating Responsibility Assignment Matrix (RAM)
M. Zeynep Çayırçimen	<ul style="list-style-type: none"> • Taking meeting notes • Searching Github Repo • Creating personal Wiki page • Preparing Protocols and Ethical Issues Requirements • Creating scenario 3 • Mockup for scenario 3 • Attending Customer Meeting • Adding terms to glossary • Designing Use Case Diagram • Project Plan - 1st part
Mısra Yavuz	<ul style="list-style-type: none"> • Setting Trello group • Exploring GitHub repositories • Creating my personal wiki page • Itemizing requirements • Documenting Performance requirements • Preparing scenario-3 • Preparing mock-up for scenario-3 • Taking notes of customer meeting • Documenting customer meeting notes on wiki • Designing Use Case Diagram • Preparing first part of Project Plan • Preparing 'evaluation of tools' of milestone-1 report
Sertay Akpınar	<ul style="list-style-type: none"> • Searching Github Repo • Creating personal Wiki page • Preparing User Basics Requirements • Adding terms to glossary • Preparing scenario-3 • Preparing Mockup for scenario 3 • Attending Customer Meeting • Designing add to chart and remove from chart Sequence Diagrams • Rearranging the diagrams images folder • Preparing the second part of Project Plan • Writing the project status of milestone-1 report

Member Name	Contributions
İsmet Sarı	<ul style="list-style-type: none"> • Making research about github repositories. • Creating personal Wiki page. • Creating Gruop 5 readme page and keeping it updated. • Writing Deployment, Availability, Accessibility requirements. • Writing scenario 1 for the guest user. • Creating mockups for scenario 1. • Contributing Class Diagram. • Creating a couple of questions for our customer meeting. • Creating Responsibility Assignment Matrix (RAM). • Adding items to glossary. • Redesigning the scenarios images folder. • Describing the items of delivarables table for Milestone-1.
Yaşar Selçuk Çalışkan	<ul style="list-style-type: none"> • Creating personal wiki page. • Searching favorite GitHub repositories. • Preparing the searching/listing requirements. • Attending the customer meeting and asking questions. • Creating two sequence diagrams-create chat and create comment. • Preparing the 2nd part of the project plan and uploading the final plan to GitHub. • Keeping repo, wiki, and issues organized.
Muhammed Halas	<ul style="list-style-type: none"> • Creating a survey to decide on the date and time of our group meeting. • Creating a personal wiki page on the repositories wiki and setting up links to it from the readme file, wiki homepage and wiki sidebar • Identifying a part of the project requirements • Creating scenario number two. • Attending all meetings. • Creating sequence diagrams • Creating survey for project name • Creating Responsibility Assignment Matrix (RAM) • Keeping repo, wiki, and issues organized
Emre Demir	<ul style="list-style-type: none"> • Creating personal Wiki page • Creating Project Plan - 3rd part • Writing moving forward part of Project Plan

Deliverables

Communication Plan

Audience	Purpose	Time	Place	Delivery Method	Communicator
All team members	Discussion about instant issues	Anytime	Online	Slack, WhatsApp, Doodle, Piazza, GitHub	None
All team members	Progress update	Anytime	Online	Slack, WhatsApp, GitHub, Trello	None
All team members	Evaluation and weekly plan	Every Wednesday @14.00	BM Building	Face-to-face	Kayacan Vesek
Available team members	In case Wednesday meeting is cancelled	Thursday @13.00	BM Building	Face-to-face	Kayacan Vesek
Available team members	Performing the weekly tasks together if needed	Anytime	BM Building	Face-to-face	Kayacan Vesek
All team members	Deadline of weekly tasks	Every Monday 23.59 strict	Online	GitHub	None

Requirements

Glossary

- **Amazon-EC2:** by allowing users to rent virtual computers on which to run their own computer applications.
- **Admin User:** A person who is responsible for system sustainability and management in general
- **Guest User:** A person who does not have an account and have restricted access to the application
- **Vendor:** A person who supply products to customers.
- **Search:** A tool to help the users find the relevant contents for given input words in the application
- **Server:** something that shares data or resources among multiple clients or performing computation for a client
- **Sign In:** Entering to the application by providing correct email and password
- **Sign Up:** Creating an account to be a member of application
- **User:** A person that interacts with the application
- **Docker:** It is a tool designed to make it easier to create, deploy, and run applications by using containers.
- **Public Profile:** A profile type which shall be visible to all users and guests.
- **Private Profile:** A profile type which shall be visible to limited users and guests.

1. Functional Requirements

1.1 User Requirements

1.1.1 User Basics

◦ 1.1.1.1 Sign Up

- **1.1.1.1.1.** Guests shall be able to sign up as a customer by providing their name, surname, e-mail address, choosing a password and a user name.
- **1.1.1.1.2.** Guests should be able to sign up with their Google or Facebook account.
- **1.1.1.1.3.** Guests shall be able to sign up as a vendor by providing their name, surname, e-mail address, choosing a password, a user name and their location (at least one).

◦ 1.1.1.2. Sign In

- **1.1.1.2.1.** Users shall be able to sign in with their e-mail or user name and password.
- **1.1.1.2.2.** There shall be a “forgotten password” button in case the user forgets the password.
- **1.1.1.2.3.** Users should be able to sign in with their Google account or Facebook account.

- **1.1.1.3. Profile**

- **1.1.1.3.1.** Vendor and customer users shall have a profile page.
- **1.1.1.3.2.** Users shall be able to set their profile to be public or private.
- **1.1.1.3.3.** Vendor's profile shall contains user's rating, types of the products user sell, products' prices and user's contact info.
- **1.1.1.3.4.** Customer's profile shall contains user's address, user's info (age, sex etc.), the saved credit cards, user's previous orders and user's assessments about the vendors and the products.

- **1.1.1.4. User Types**

- **1.1.1.4.1.** Guest: A user who is using the platform but has not signed up yet.
- **1.1.1.4.2.** Customer: A user who is able to use all the functionality of the system other than selling products.
- **1.1.1.4.3.** Vendor: A user who is able to sell products on the platform, in addition to the features that customers have.
- **1.1.1.3.4.** Admin: An administrative user who is able to ban users and manage the whole system processes.

1.1.2. User Interactions

- **1.1.2.1. Rating The Product**

- **1.1.2.1.1.** Users should be able to rate the products.

- **1.1.2.2. Commenting on Products**

- **1.1.2.2.1.** Users should be able to comment on the products.

- **1.1.2.3. Search**

- **1.1.2.3.1.** Users should be able to search for products and vendors. See 1.5 for more info.

- **1.1.2.4. Communication**

- **1.1.2.4.1.** Users should be able to communicate with vendors through direct messaging.

- **1.1.2.5. Carts**

- **1.1.2.5.1.** Users should be able to add products to their cart.
- **1.1.2.5.2.** Users should be able to remove products from their cart.

- **1.1.2.6. Lists**

- **1.1.2.6.1.** Customers should be able to create private lists.
- **1.1.2.6.2.** Customers should be able to add products to their lists.
- **1.1.2.6.3.** Customers should be able to delete products from their lists.
- **1.1.2.6.4.** Customers should be able to delete their lists.

- **1.1.2.7. Orders**

- **1.1.2.7.1.** Customers should be able to make and cancel orders and follow their orders. See 1.3 and 1.4 for more info.

1.1.3. Vendor Specific Interactions

- **1.1.3.1. Adding New Product**

- **1.1.3.1.1.** Vendors shall be able to add a new product to the platform with the necessary information of products(price, condition, category, etc.)
 - **1.1.3.1.2.** Vendors shall be able to sell as many products as they want.
 - **1.1.3.1.3.** Vendors shall be able to mention about the stock of a product.

- **1.1.3.2. Communication**

- **1.1.3.2.1.** Vendors shall be able to communicate with admins about orders.
 - **1.1.3.2.2.** Vendors shall be able to communicate with customers that text themselves through direct message.

- **1.1.3.3. Product Sold by Different Vendors**

- **1.1.3.2.1.** Vendors shall be able to sell the same product with another vendors.

- **1.1.3.4. Orders**

- **1.1.3.3.1.** Vendors shall be able to follow all processes about their ordered products as the customers.
 - **1.1.3.3.2.** Vendors shall be able to cancel an order during the order processing stage.

- **1.1.3.5. Recommendation System**

- **1.1.3.5.1.** Customers shall be able to be recommended based on their interactions on the platform.

1.1.4. Customers Specific Interactions

- **1.1.4.1. Customers' Lists**

- **1.1.4.1.1.** Customers shall be able to create their own lists and carts.

- **1.1.4.1.2.** Customers shall be able to add as many products as they want to their baskets.

- **1.1.4.2. Communication**

- **1.1.4.2.1.** Customers shall be able to communicate with vendors through direct messaging.

- **1.1.4.3. Orders**

- **1.1.4.3.1.** Customers shall be able to follow their orders via the orders page.
- **1.1.4.3.2.** Customers shall be able to see their active and delivered orders with sufficient information about the orders.
- **1.1.4.3.3.** Customers shall be able to cancel their active orders.
- **1.1.4.3.4.** Customers shall be able to return their delivered orders.

- **1.1.4.4. Notifications**

- **1.1.4.4.1.** Customers shall be able to be notified about changes in products that are in their lists or favorites.
- **1.1.4.4.2.** Customers shall be able to set alarm for a certain price and choose to be notified if the price of product goes below the chosen price.

- **1.1.4.4. Recommendation System**

- **1.1.4.4.1.** Customers shall be able to be recommended based on their interactions on the platform.

1.1.5. Searching/Listing

- **1.1.5.1. Search Bar**

- **1.1.5.1.1.** Users should be able to search for both product pages and vendor profiles using the search bar. Search results should also include semantic results, similar vendors and similar products.

- **1.1.5.2. Filter**

- **1.1.5.2.1.** Users should be able to filter products based on brand, vendor, price range, rating, and discount rate.

- **1.1.5.3. Sorting**

- **1.1.5.3.1.** Users should be able to sort products based on bestsellers, newest arrivals, price, number of customer reviews, rating, and number of comments.

1.2 System Requirements

1.2.1 Security

◦ 1.2.1.1. Sign Up

- 1.2.1.1.1. System shall send a verification email when a customer signs up.
- 1.2.1.1.2. System shall allow the passwords to be at least 8 characters which must include at least one uppercase, one lowercase character and a number
- 1.2.1.1.3. System shall ask customer to enter their password twice while signing up.

◦ 1.2.1.2. Sign In

- 1.2.1.2.1. System shall allow customers to enter wrong password only 3 consecutive times. After that, system shall block the account and send an email to customer for giving information about the trial.
- 1.2.1.2.2. System shall remind customers to change their passwords regularly.

◦ 1.2.1.3. Payment

- 1.2.1.3.1. System shall ask all credit card information before any transaction if no credit card information is given or no card has already been saved. The information shall include proper card number with 16 characters, expiration date and CVV (3 character security code).

1.2.2. Performance

- 1.2.2.1 The system shall be able to respond to requests within 10 ms in general. Maximum response time should not exceed 1s.
- 1.2.2.2 The system shall cache frequently accessed contents to deliver faster and reduce response time.

2. Non-Functional Requirements

2.1. Protocol

- 2.1.1. The system should meet the standards written in the W3C protocol.
- 2.1.2. The system should follow the W3C Activity Streams protocol.

2.2. Ethical Issues

- **2.2.1.** When users sign up they should accept Privacy Policy.
- **2.2.2.** When users sign up they should accept Terms of Use.
- **2.2.3.** User data should be processed according to the rules specified by GDPR and KVKK.

2.3. Deployment

- **2.3.1. Deployment on a Server**
 - **2.3.1.1.** The system shall be deployed on Amazon EC2 server
- **2.3.2. Docker**
 - **2.3.2.1.** The system shall has docker technology to ease the development and deployment processes.

2.4. Availability

- **2.4.1 Web Access**
 - **2.4.1.1** The system shall have a Web application that supports Chrome browser that supports all versions since 2011.
 - **2.4.1.2** The system shall have a Web application that supports Firefox browser that supports latest version.
 - **2.4.1.3** The system shall have a Web application that supports Safari browser that supports all versions since 2014.
 - **2.4.1.4** The system shall have a Web application that supports Opera browser that supports all versions since 2016.
- **2.4.2. Mobile Access**
 - **2.4.2.1** The system shall be compatible with Android 5.1 or higher version.

2.5. Accessibility

- **2.5.1** The system must maintain itself every Monday between 3.00 am and 3.05 am regularly.
- **2.5.2** Every user shall receive an alert message 1 hour before the maintenance of the system stars.

User Scenario 1

Persona

- Zeynep Deretepe

- 22 years old
- Student
- Currently pursuing bachelor's degree
- A night owl
- Part-time software developer
- Enthusiastic about VR Technology, Computer Science

Story

- Zeynep is a junior computer engineering student at Boğaziçi University.
- She is a very hard-working and ambitious student.
- She wants to be the most successful student in the department.
- Zeynep studies at nights because she feels comfort when all others go to sleep and can study more than others.
- Besides, Zeynep must take short naps during the day so that she can be awake until late at night. However, daylights keep her from a relaxing nap.

Preconditions

- Zeynep is not a registered user of our site.

Goals

- Zeynep wants to sleep well during the day.
- Zeynep decides to buy a sleep mask.

Acceptance Criteria

- **(1.1.2.1.1)** Users should be able to rate the products.
- **(1.1.2.2.1)** Users should be able to comment on the products.
- **(1.1.5.2.1)** Users should be able to filter products based on brand, vendor, price range, rating, and discount rate.
- **(1.1.5.3.1)** Users should be able to sort products based on bestsellers, newest arrivals, price, number of customer reviews, rating, and number of comments.
- **(1.1.2.5.1)** Users should be able to add products to their cart.
- **(1.1.1.1.1)** Guests shall be able to sign up as a customer by providing their name, surname, e-mail address, choosing a password and a user name.
- **(1.2.1.1.1)** System shall send a verification email when a customer signs up.
- **(1.2.1.3.1)** System shall ask all credit card information before any transaction if no credit card information is given or no card has already been saved. The information shall

include proper card number with 16 characters, expiration date and CVV (3 character security code).

Scenario with Mockups

- Zeynep was a guest user, so she did not sign up yet.
- She wanted to see and buy a sleep mask. She wrote "sleep mask" on Google and click the first website. Since our site allows a guest user to see products, she could easily see related products.
- She took a quick look at the products on the site page and realized that there were a lot of different products and vendors. So, she understood that it might obviously hard to choose one.
- She decided to use filtering. She selected the most familiar brands and the highest-ranked vendors on the left sidebar.
- She sorted products from the lowest price to the highest price. She didn't want to give money to the mask because she had spent all her money on books.
- When the page is renewed, Zeynep found a product how is exactly she wants, a sleep mask with a rabbit picture on it.
- She opened the product page and looked at the details of it.
- She checked and liked the mask and tried to add it to the cart.
- However, because she was a guest user, the site did not allow the action and navigate her to the sign-in page.
- Since she does not have account to sign-in she click to sign-up page.
- She typed her name, surname, e-mail and password and clicked, approved the confidentiality agreement button.
- After that, the e-mail verification page was opened.
- Zeynep opened a new tab on her browser and checked her mailbox, then saw the e-mail coming from the site.
- She clicked the link for verification and the site navigated her to purchase page with a verified new user account.
- She checked the product and the price for the last time and clicked the order button to pass the delivery address page.
- She typed her address information and pass to the credit card information page.
- She typed her credit card information and clicked the button to complete the shopping.

User Scenario 2

Persona

Asuman Ilicali

Asuman is a 32-year-old woman who runs a boutique shop in Istanbul. She crafts and sells jewelry. She also sells jewelry making materials which she imports from China. In addition to her shop in Istanbul, she also uses e-commerce platforms to market her products.

Situation

Asuman has received a new shipment of jewelry materials from China. She has already sold these products before on our platform, she just needs to increase the number in stock. These new products are “resin” and “necklace chain”. She has also just finished making a new one of a kind necklace which she has never sold on our platform before. She has a photo of the necklace on her desktop.

Precondition

Asuman is already logged in to the platform.

Goals

- Asuman wants to increase the stock of the products which came with the new shipment.
- Asuman wants to add her new, one of a kind necklace to her stock to sell it.

Acceptance Criteria

- Asuman shall be able to increase the stocks of her products successfully. (Requirement 1.1.3.1.1)
- Asuman shall be able to add a new product successfully. (Requirement 1.1.3.1.3)

Scenario

1. Asuman is already signed in to our platform.
2. She clicks on “My Stock” to go to her stock page.
3. She looks at her products in stock and finds “resin”.
4. She clicks on the product name and now she is on the product details page.
5. She clicks on the edit button.
6. She writes down the new stock number and clicks the save button.
7. She sees the stock is now increased to the value she entered.
8. She once again clicks the “My Stock” button.
9. She looks down the list of products she has in stock and finds “Necklace Chain” and she clicks on it.
10. She clicks on the edit button, inputs the new stock, and hits save.
11. She sees that the stock is successfully edited.

12. She clicks the “My Stock” button again. She clicks on the “Add New Product” button.
13. She enters the product name “Handmade Necklace”. She clicks on the “upload photo” button.
14. She selects the photo of the necklace from the explorer window which comes up.
15. She sees that the photo is uploaded and it shows up on her screen.
16. She inputs 1 for the stock number, and inputs 5TL for the price of the necklace .
17. She hits save.
18. She wants to see how her new product looks to a buyer so she clicks the search bar and searches for “handmade necklace”.
19. She sorts the result to “most recent”. Her necklace shows up on the first row.
20. She clicks on it and she is satisfied with the result so he closes her browser.

User Scenario 3

Persona

- Name: Emre Hoşaf
- Age: 24
- School: Bogazici University
- Currently pursuing bachelor's degree in management department
- Addicted to mobile phone

Story

- Emre Hoşaf is a senior management student at Bogazici University.
- He uses his mobile phone for anything from watching tv series to doing homework.
- He spends at least 5 hours a day on screen so his phone charge is draining fast.

Goals

- Emre wants his phone battery not be dead so fast.
- Emre decides to buy a powerful powerbank.

Precondition

- Emre has already signed up as a customer to our platform.

Acceptance Criteria

- Emre shall be able to search for a product and sort the results according to bestseller criteria. (1.1.5.)

- Emre shall be able to view the details of a product and read the comments. (1.1.2.2.)
- Emre shall have the option to send a message to the seller about the product. (1.1.4.2.1.)
- Emre shall be able to see the reply from the customer in his account later on. (1.1.3.2.2.)

Scenario

- Emre is in search for a powerful powerbank. He is already a customer of our platform and uses it often. So, he **logins** to his account.
- He **searches** for powerbanks. Since there are lots of options, he decides to **sort** the results by bestsellers.
- He clicks on the first one to view the **details of the product**.
- He wants to know how long the powerbank can last and how many times it can charge his phone fully, but he is not familiar with technology terms. He looks at the **comments** section to find an answer.
- There are no comments related to his questions, he returns back to the product page and decides to ask to the vendor. He clicks on the **Send a message to seller** button.
- **Contact us** page comes up, he writes the subject of his message and asks the questions in his mind.
- He clicks **Send** button and a **verification** comes up to inform that message is successfully sent.
- Next day, he opens our platform again to check his messages. He clicks on **My Account/Messages** button.
- Messages page opens up, with a **new message** from the vendor. His questions are answered.

A Web Page

https://bounswe2020group5.com

Electronic Books Music Movies Sports Decorations Office Outdoor

Brands

☐ Hepsi Dahice

☐ Toplanca Kapıda

☐ Bureada Soğuk

☐ Celderma

☐ Essence

☐ LUX

☐ Nexcore

Vendors

☐ Roll

☐ B-good

☐ Go Travel

Price Range

☐ 0 - 25 \$

☐ 25 - 50 \$

☐ 50 - 75 \$

Discount

☐ 25%

☐ 35%

☐ 45%

Q sleep mask

Sign-in

We found 119 product

Categories: Sporting Bandage

Bestsellers Newest Arrivals Price # Reviews Rating # Comments

 Roll new Sleep Mask

Roll 27.99 \$

 Roll KFA Sleep Mask

Roll 34.99 \$

 Super Ultra Go travel

Go Travel 9.99 \$

A Web Page

https://bounswe2020group5.com

Electronic Books Music Movies Sports Decorations Office Outdoor

Brands

☐ Hepsi Dahice

☐ Toplanca Kapıda

☐ Bureada Soğuk

☐ Celderma

☒ Essence

☐ LUX

☐ Nexcore

Vendors

☒ Roll

☐ B-good

☐ Go Travel

Price Range

☐ 0 - 25 \$

☒ 25 - 50 \$

☐ 50 - 75 \$

Discount

☐ 25%

☐ 35%

☐ 45%

Q sleep mask

Sign-in

We found 29 product

Categories: Sporting Bandage

Bestsellers Newest Arrivals Price # Reviews Rating # Comments

 Roll new Sleep Mask

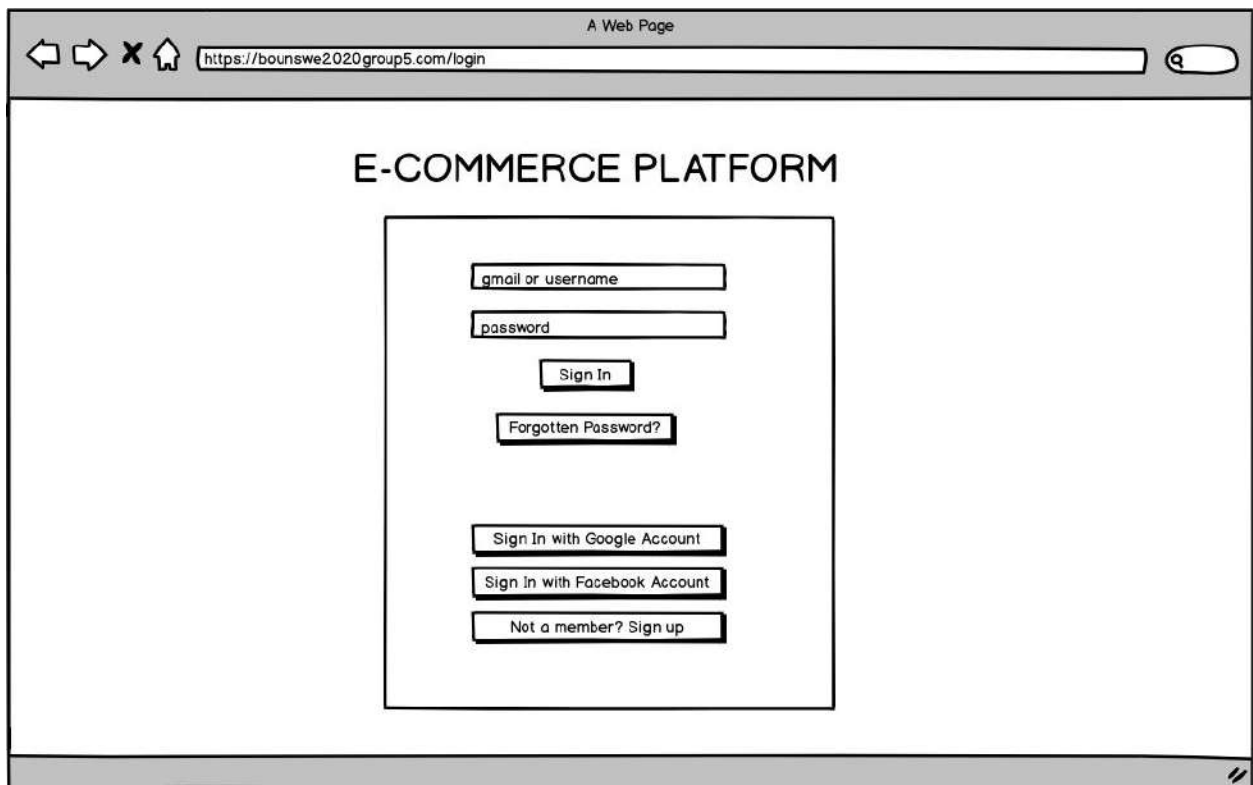
Roll 27.99 \$

 Roll KFA Sleep Mask

Roll 34.99 \$

 Roll Ultra Cute

Roll 44.99 \$



A Web Page

https://bounswe2020group5.com/register

E-COMMERCE PLATFORM

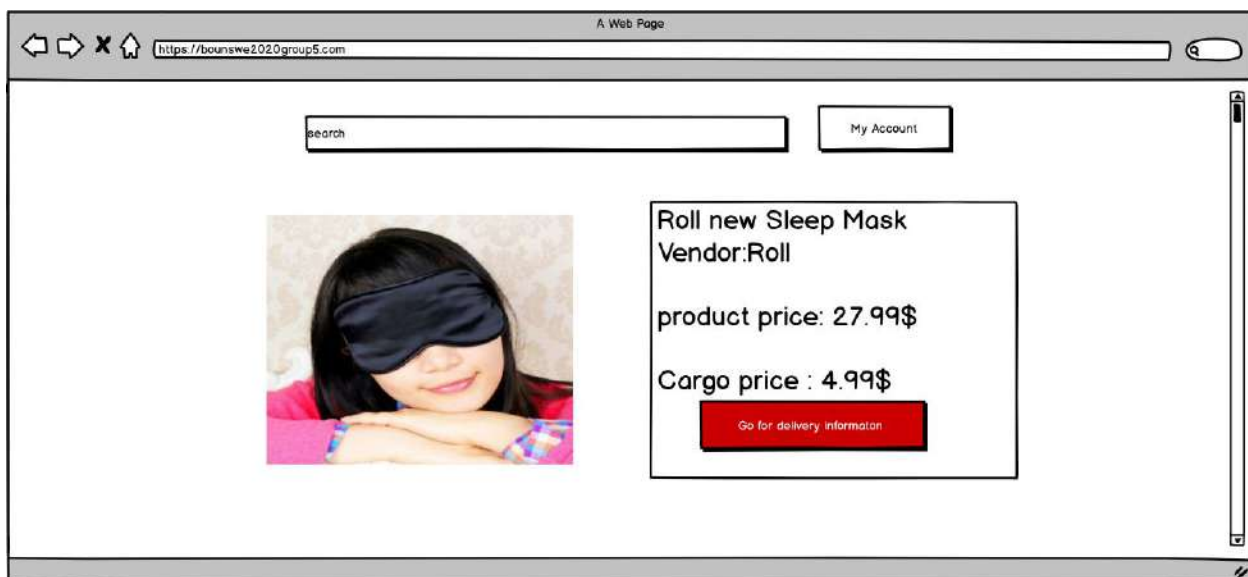
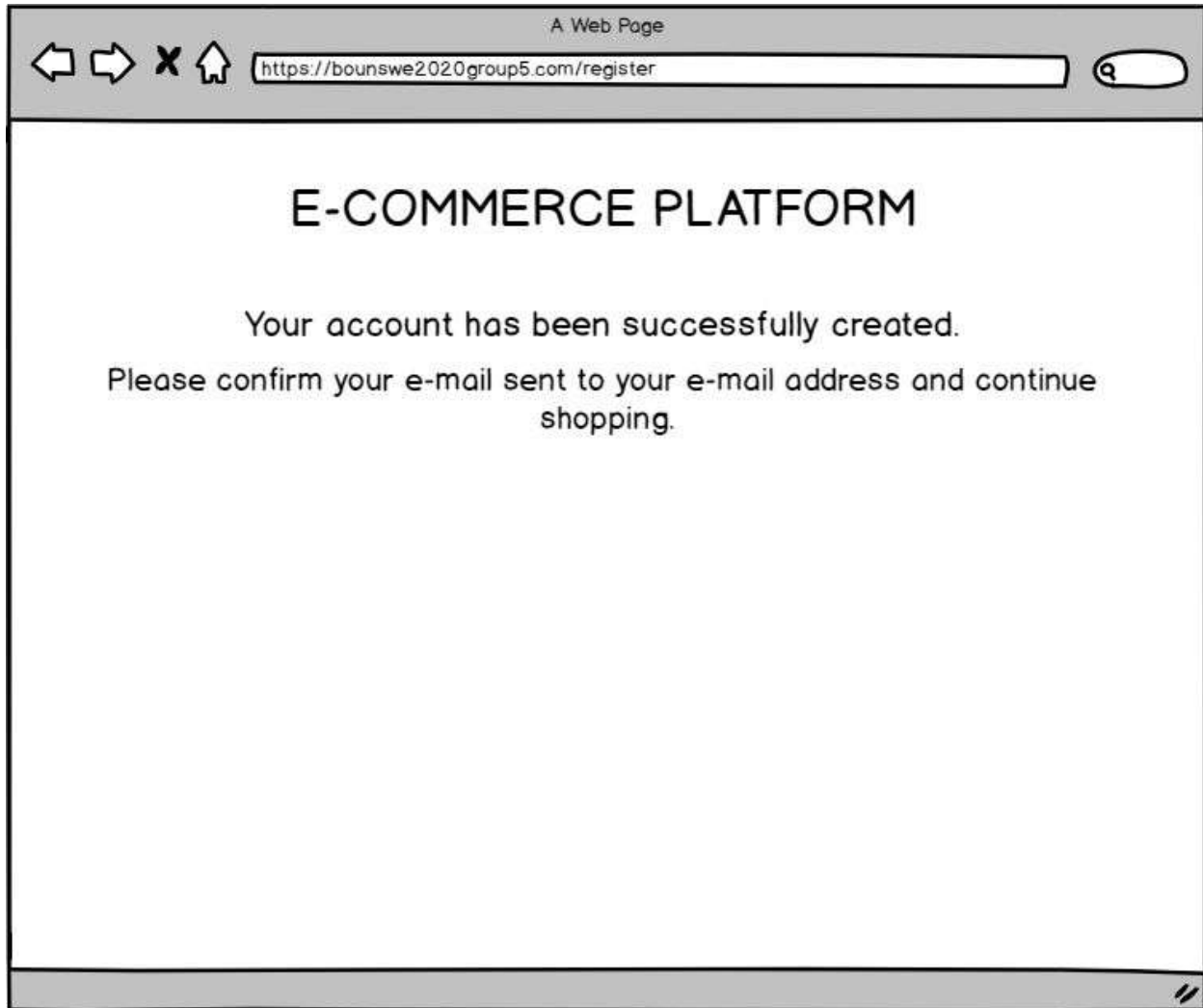
zeynep

Deretepe

zeynepderetepe@gmail.com

Your personal data is processed within the scope of the Clarification Text. By clicking the Create my account button, you confirm that you have read and accepted the Membership Agreement, Consent Text, Privacy and Cookie Policy

Sign Up



A Web Page

https://bounswe2020group5.com

search

My Account

Address Information
boğaziçi university
north campüs 3.
dorm Beşiktaş/
İstanbul

Roll new Sleep Mask
Vendor:Roll
product price: 27.99\$
Cargo price : 4.99\$
[Go for payment](#)

A Web Page

https://bounswe2020group5.com

My Account

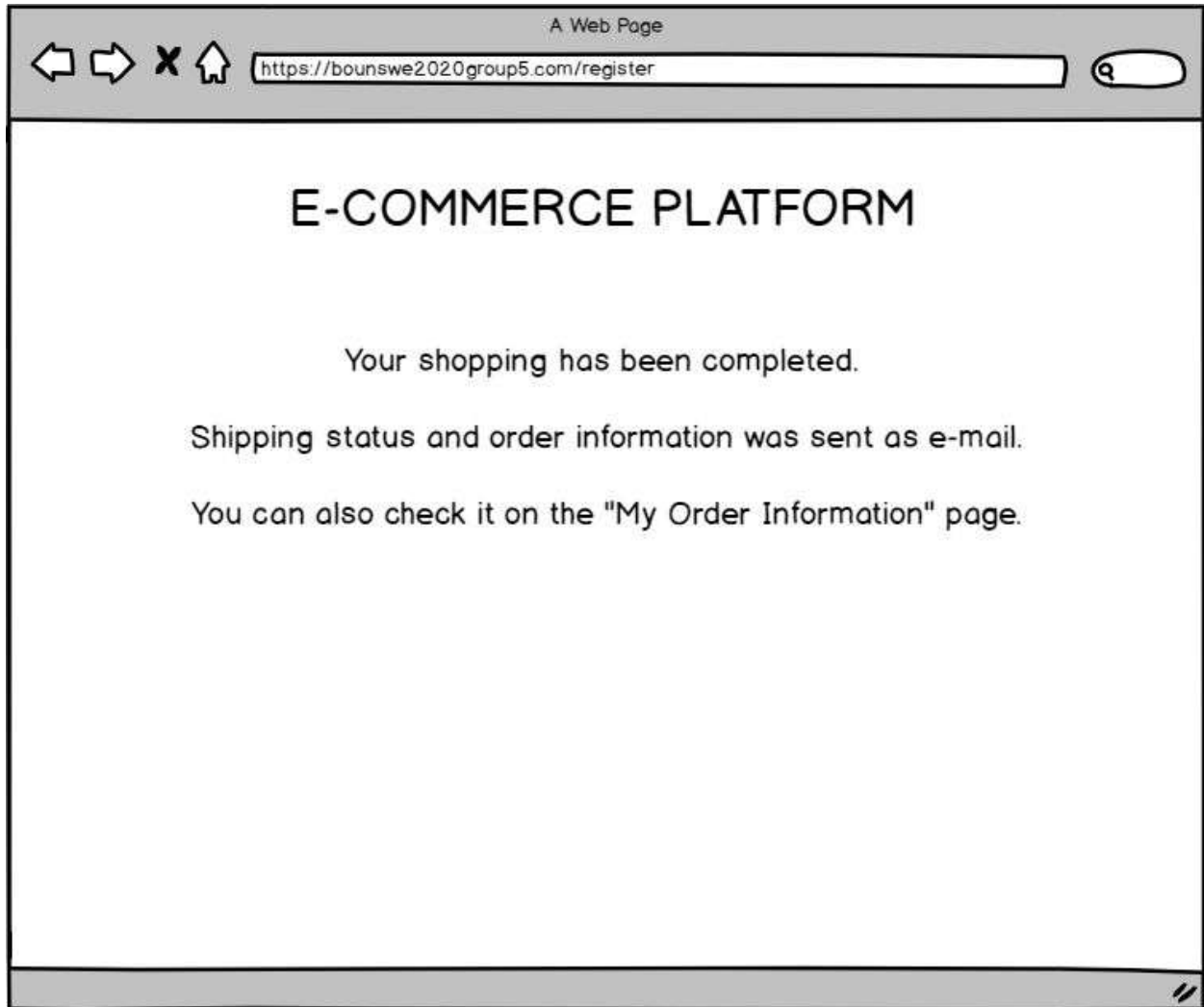
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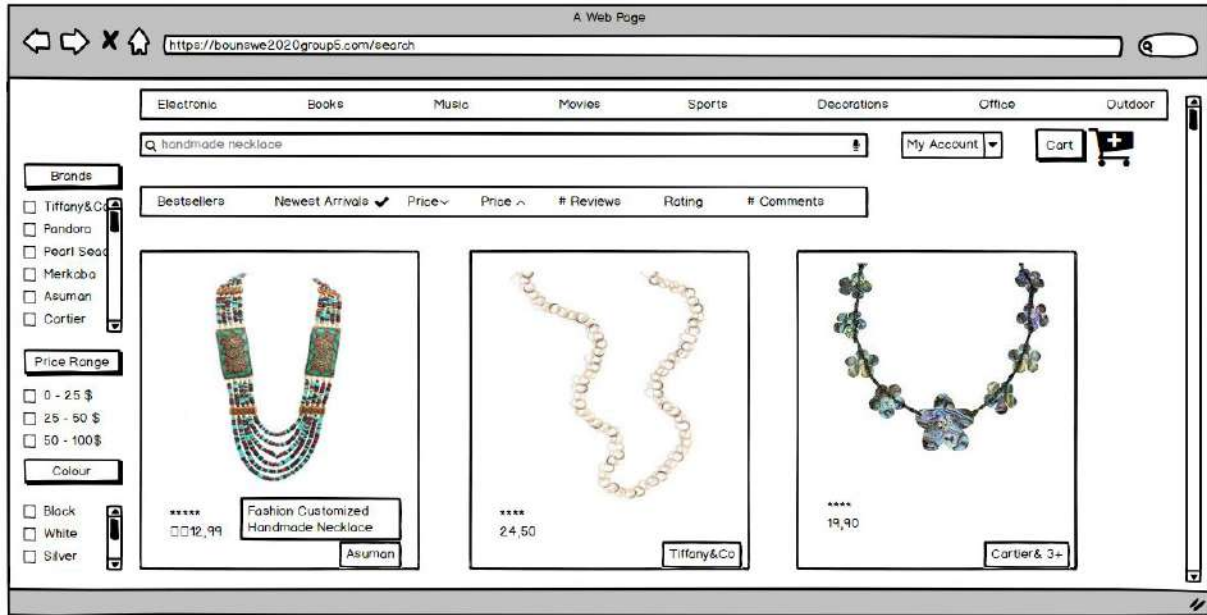
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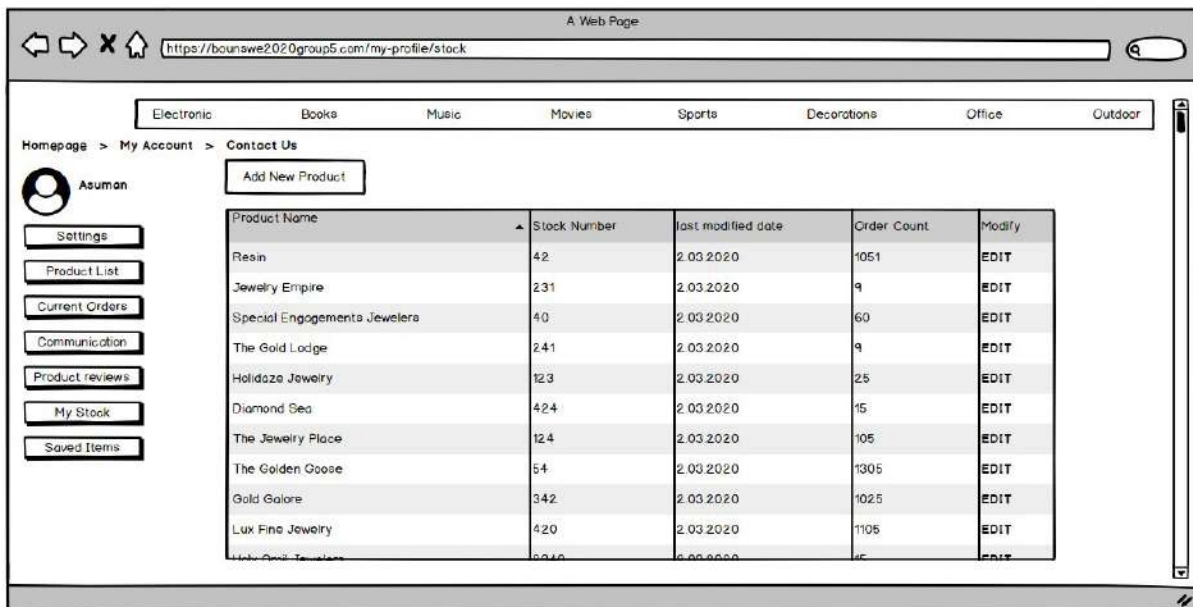
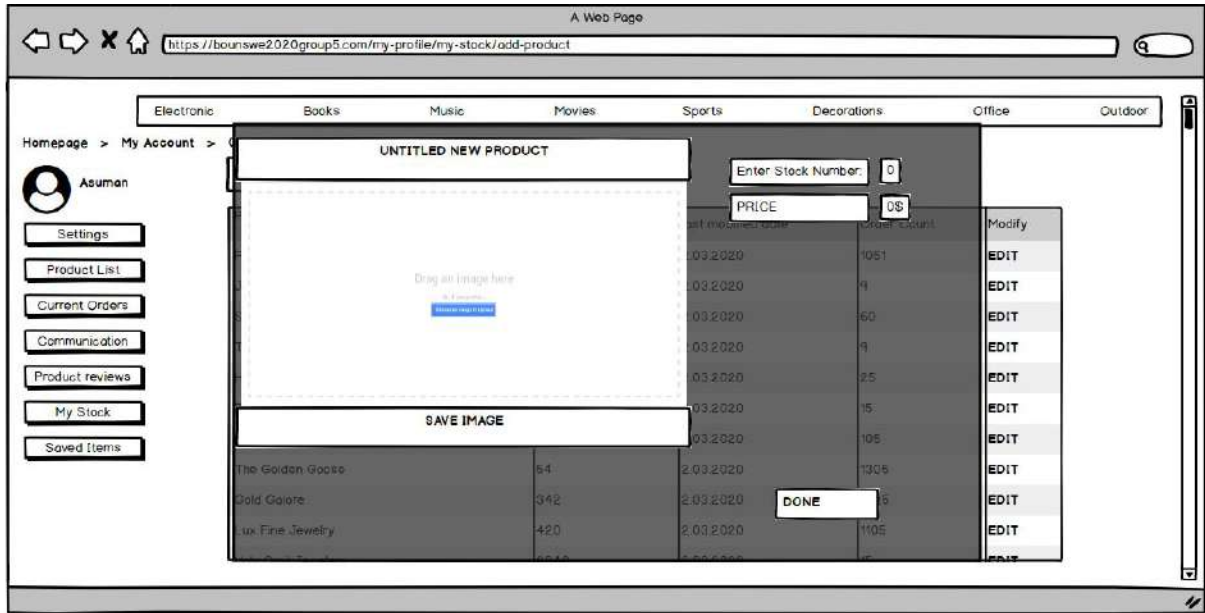
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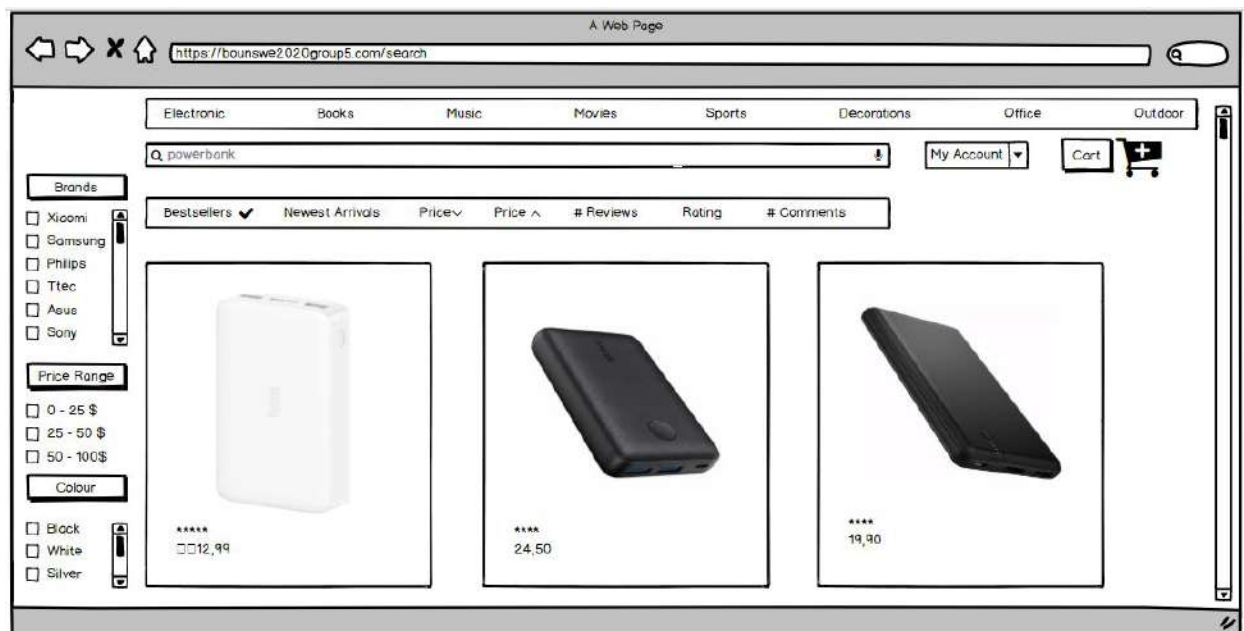
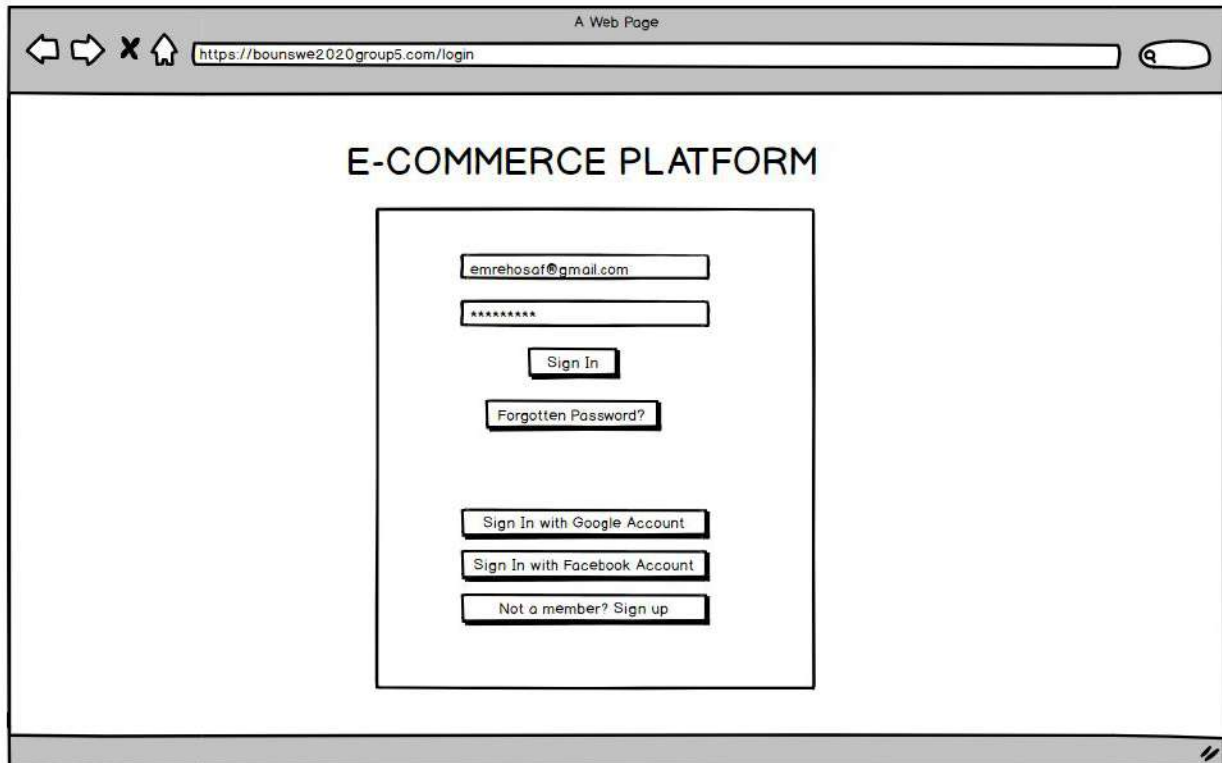
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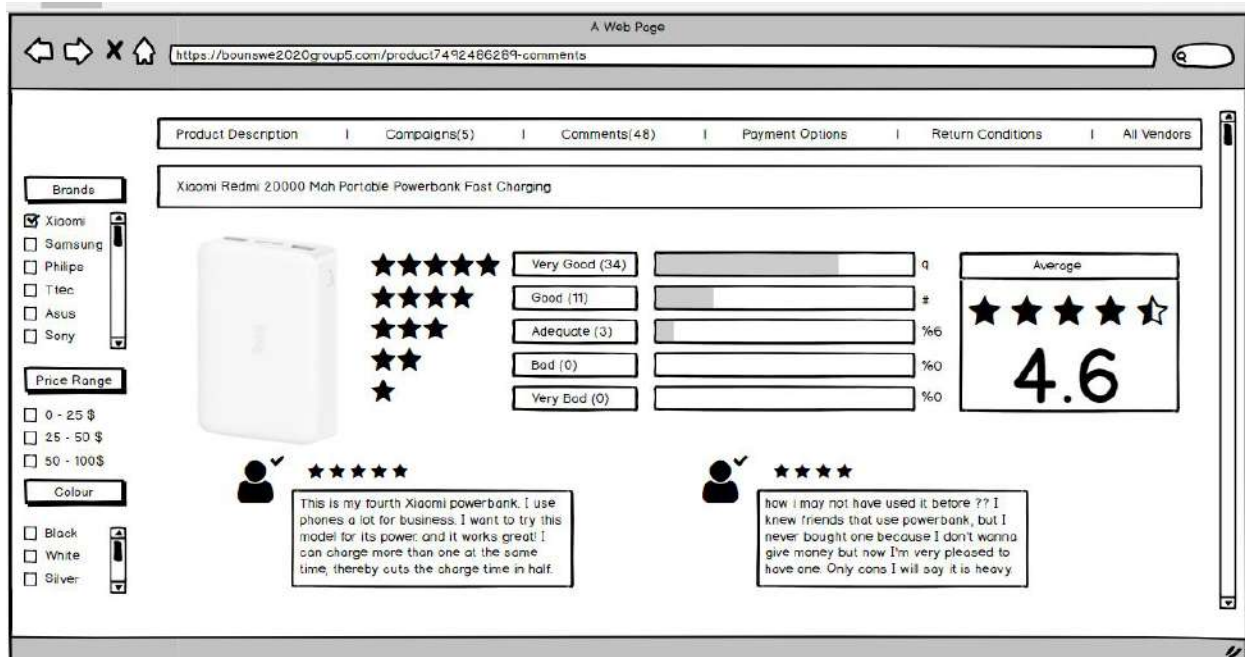
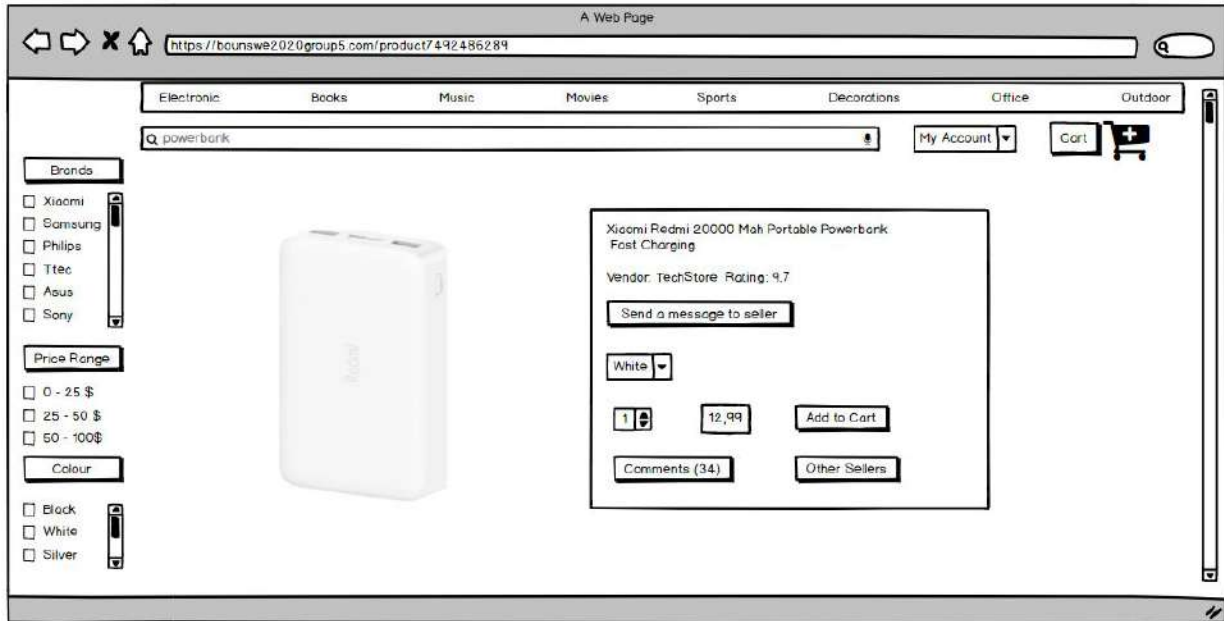
Roll new Sleep Mask
Vendor:Roll
product price: 27.99\$
Cargo price : 4.99\$
[complete shopping](#)

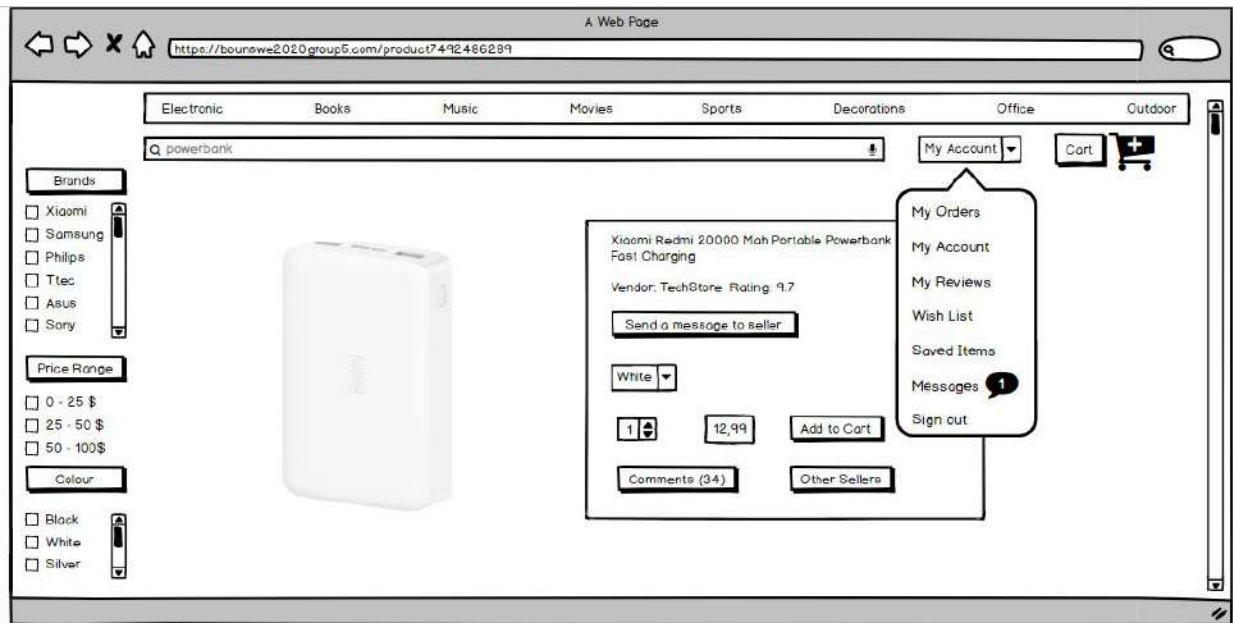


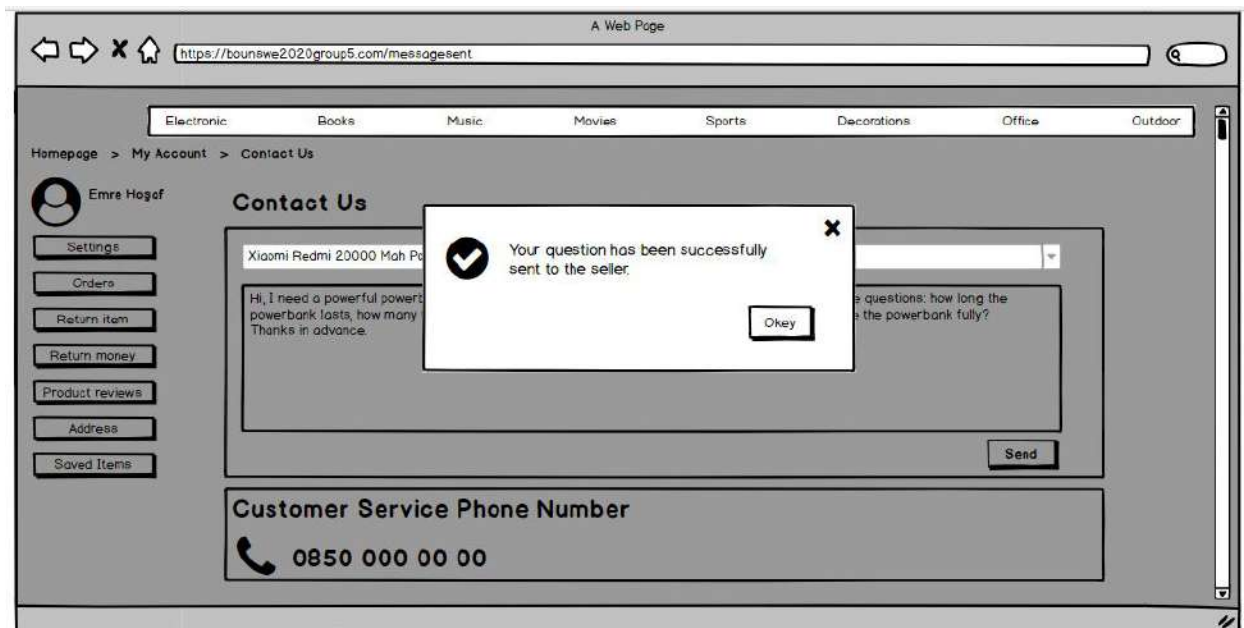
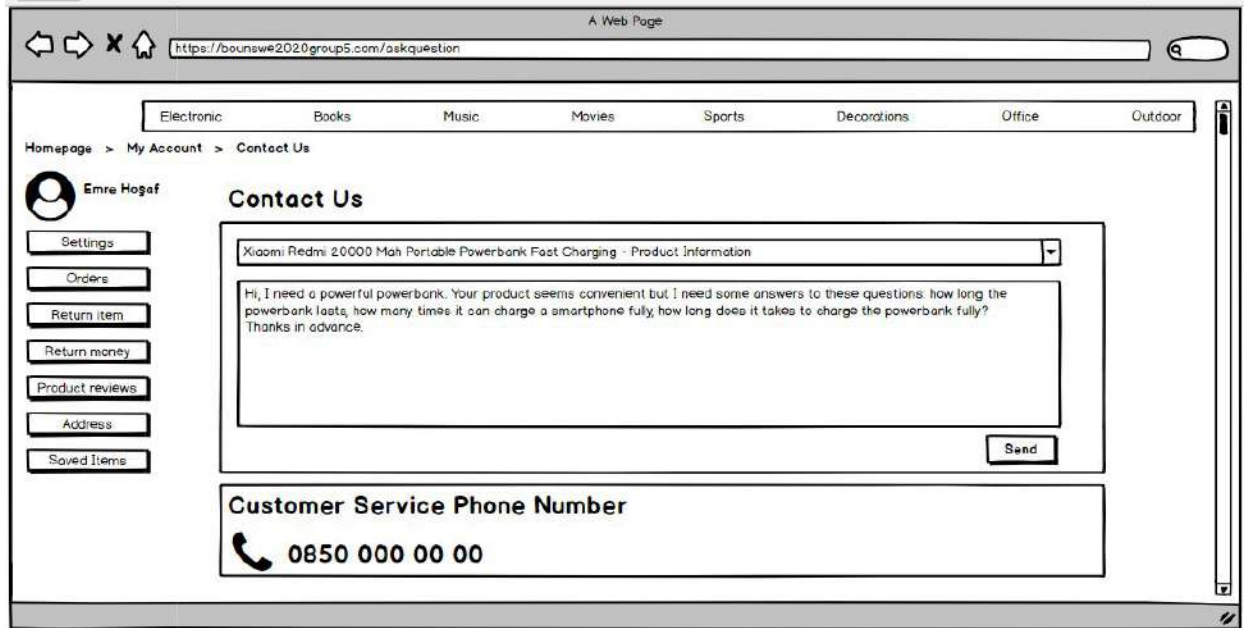


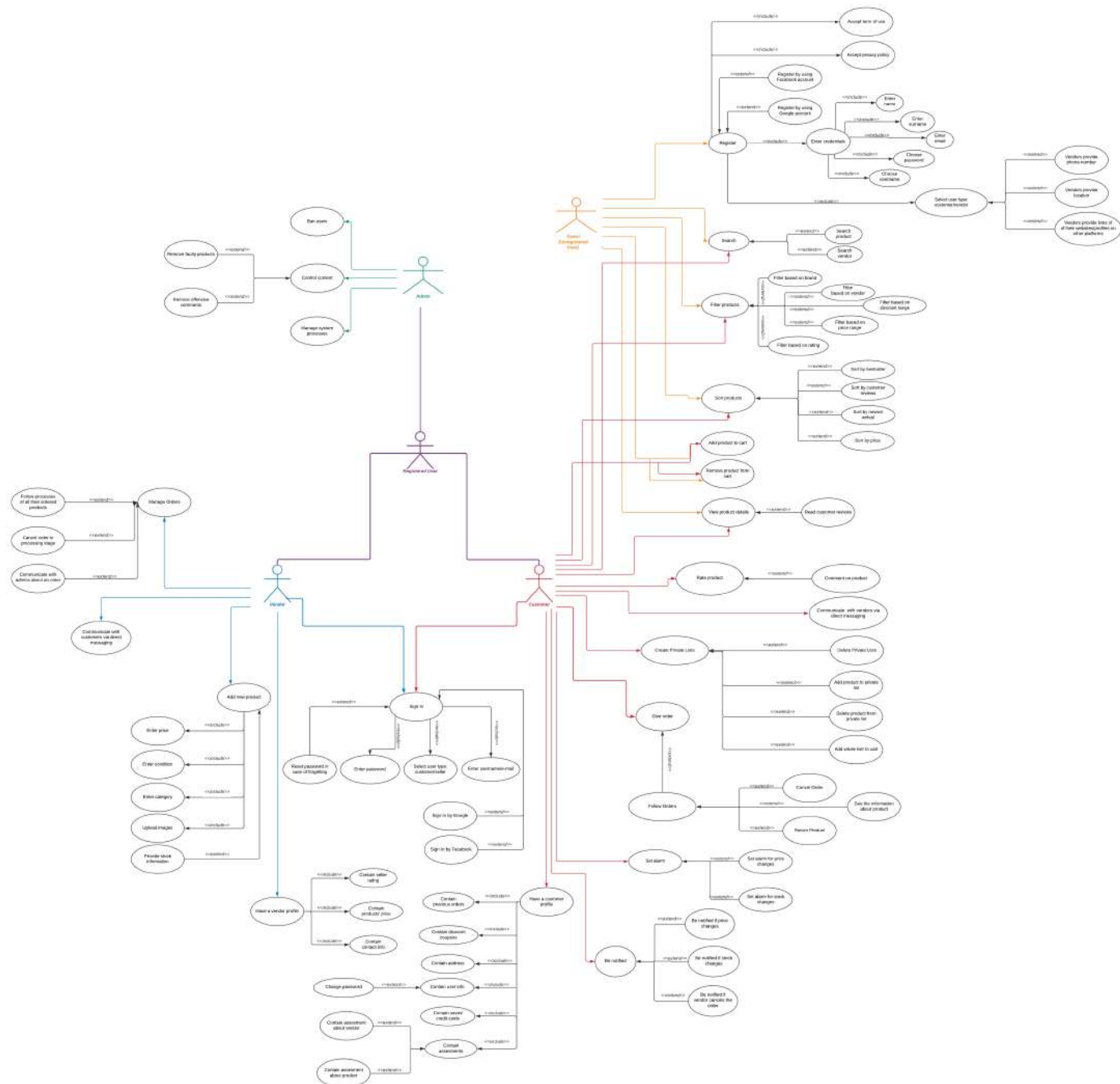


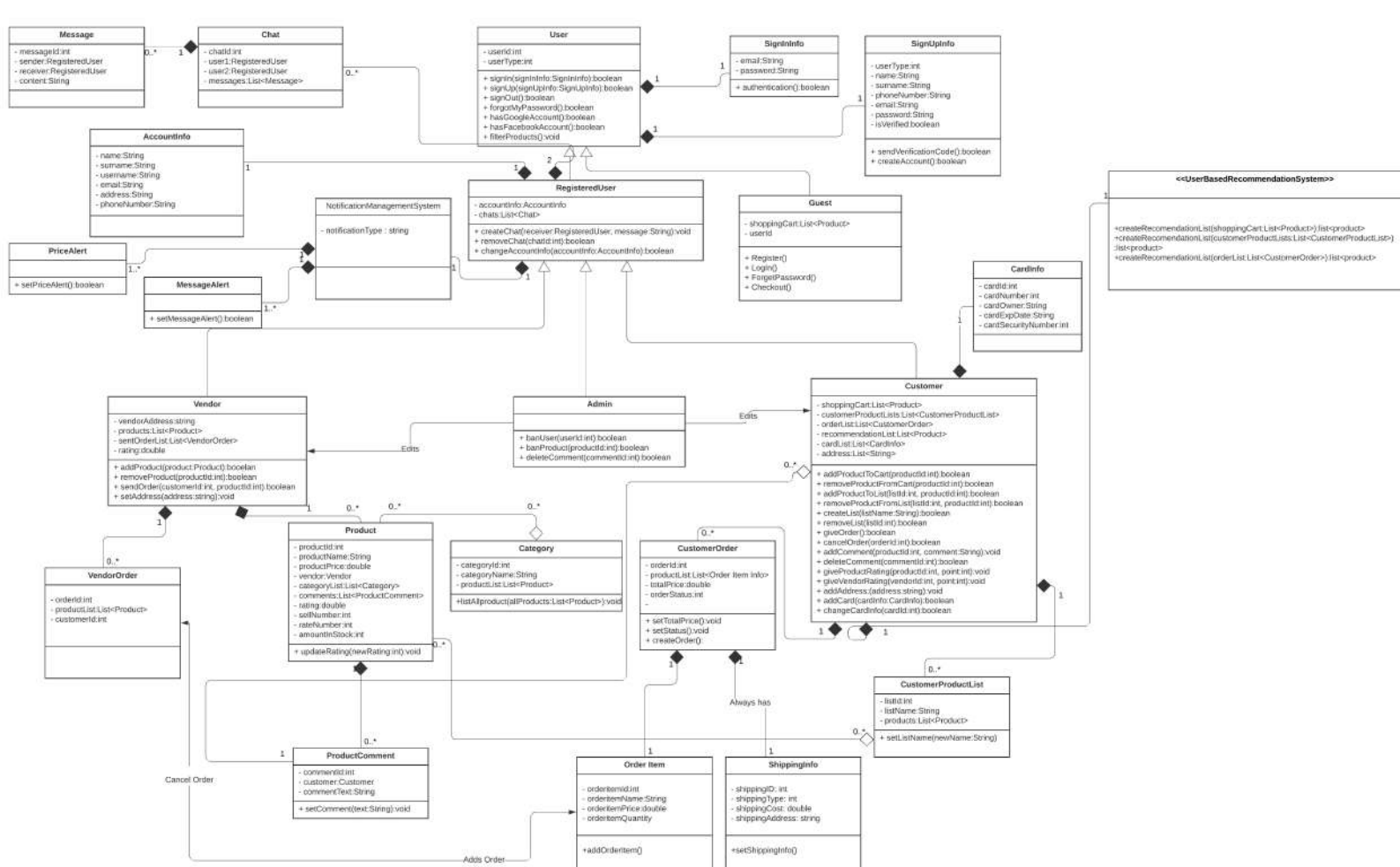


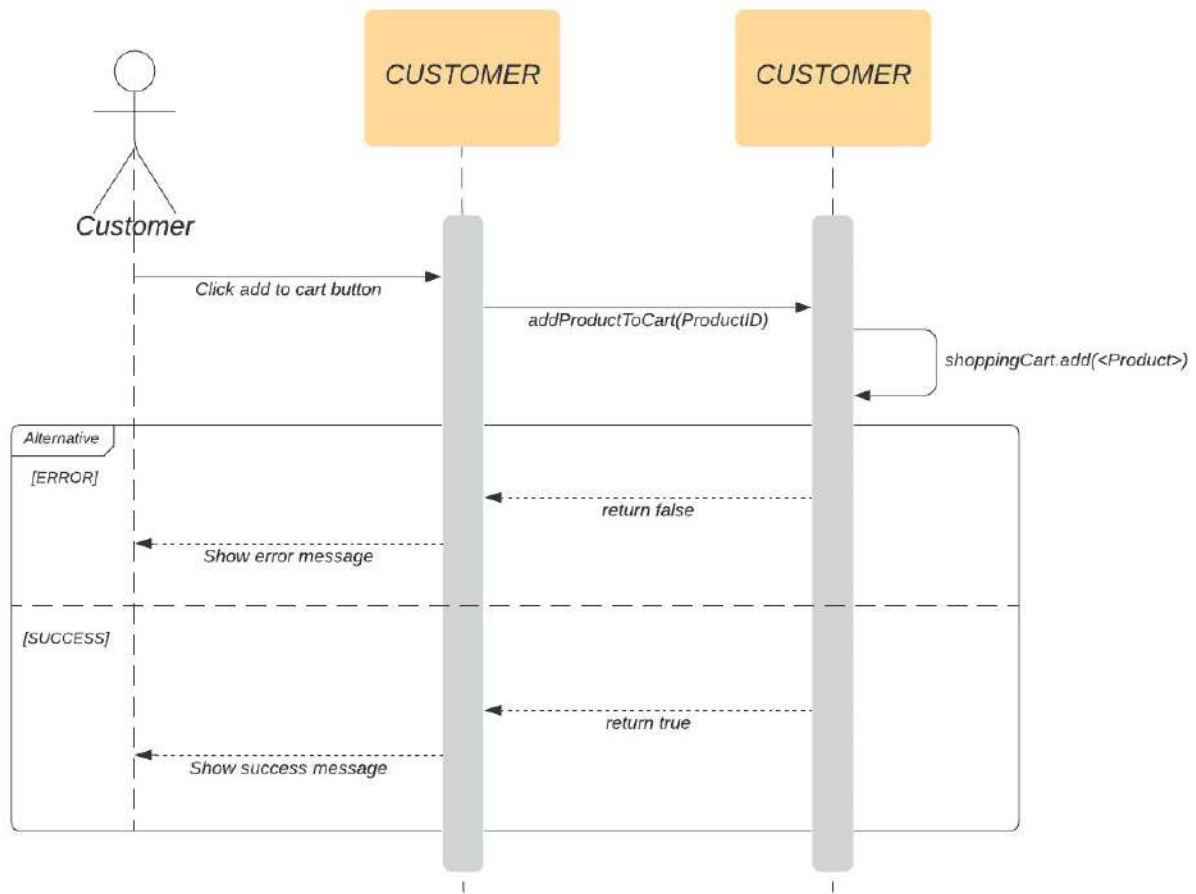






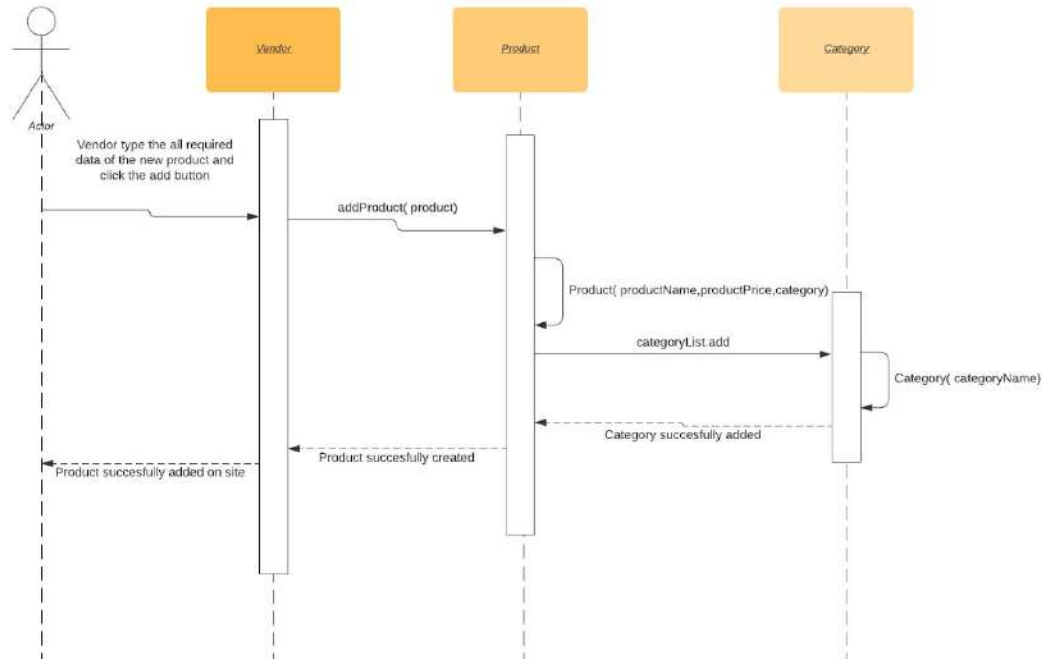






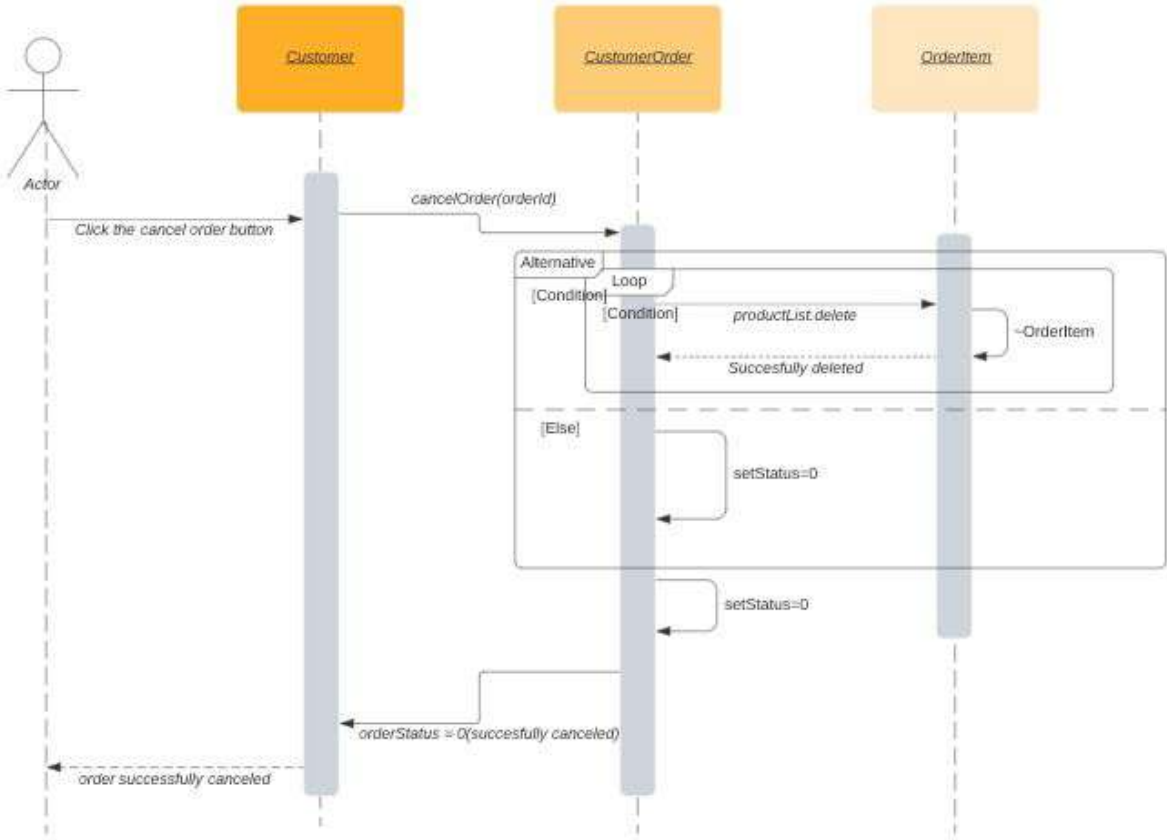
Vendor add product

Enwa | April 8 2020



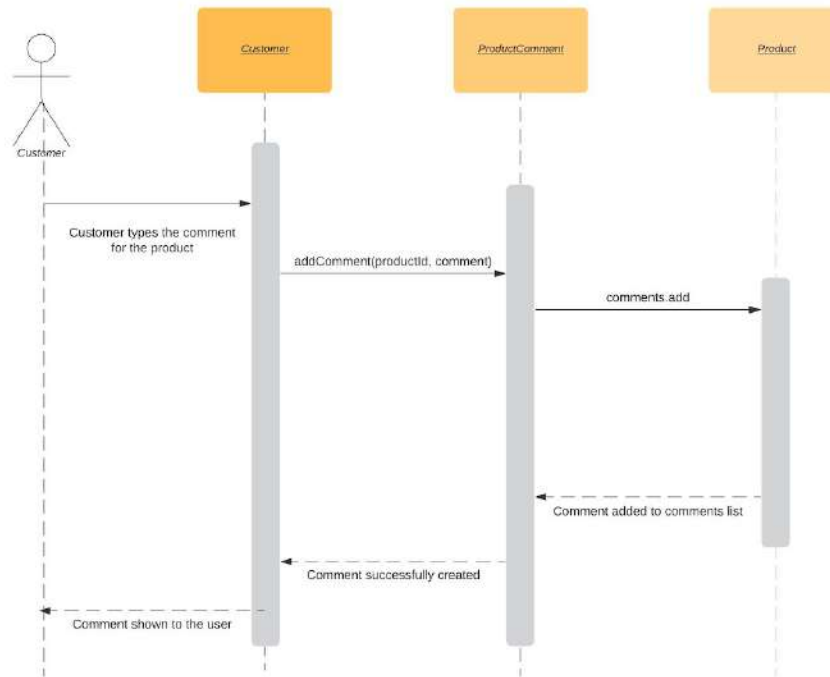
Customer Cancel an Order

semrehoser | March 27, 2023



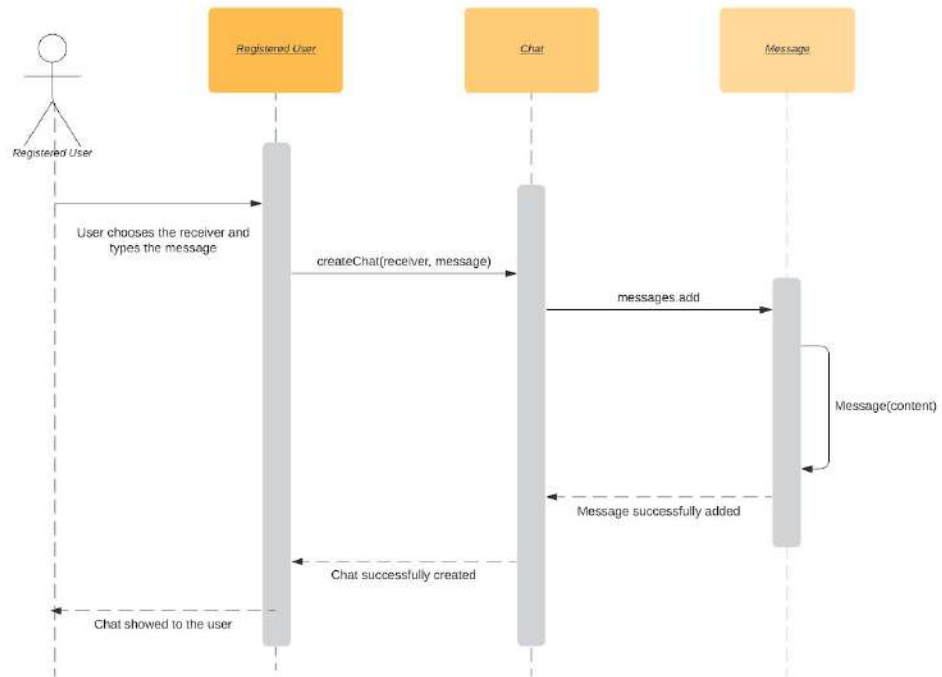
Registered User Create Chat

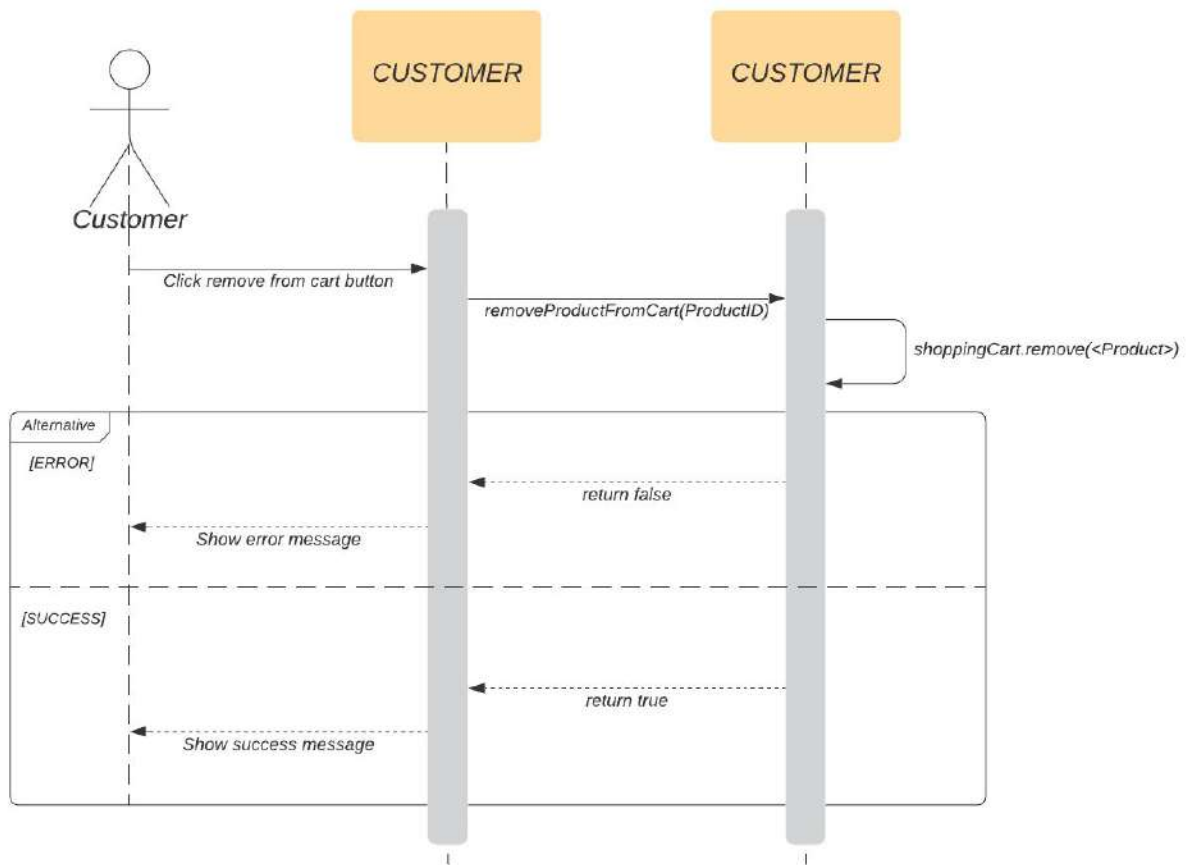
Yazar Seçkilik Çalışkan | April 14, 2020



Registered User Create Chat

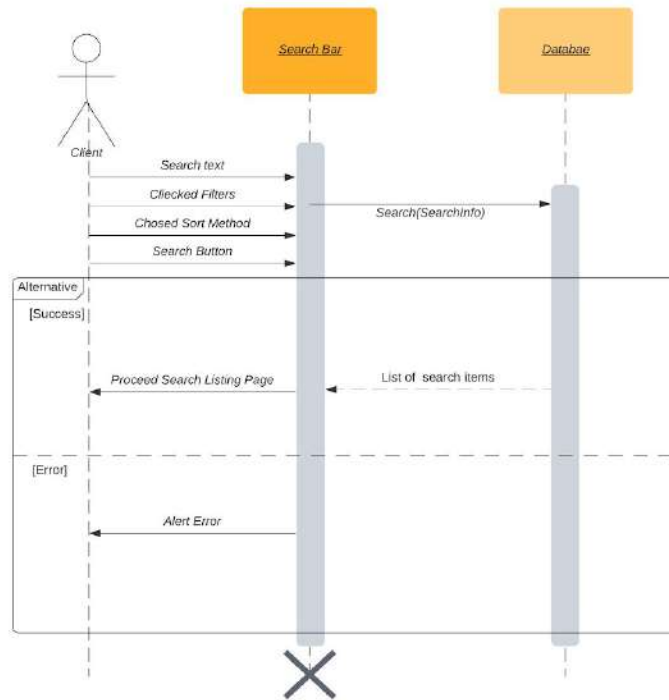
Yazar Seçkil Çalığıran | April 14, 2020



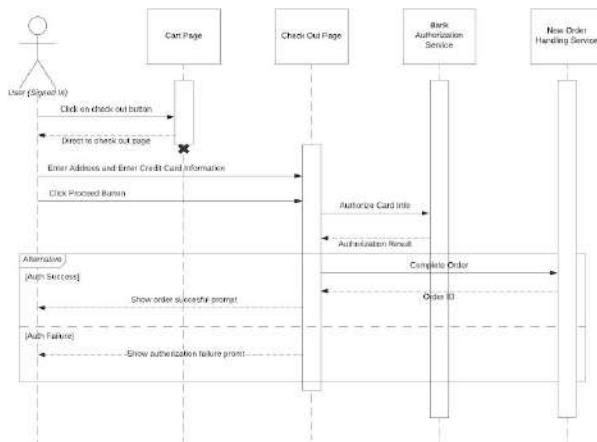


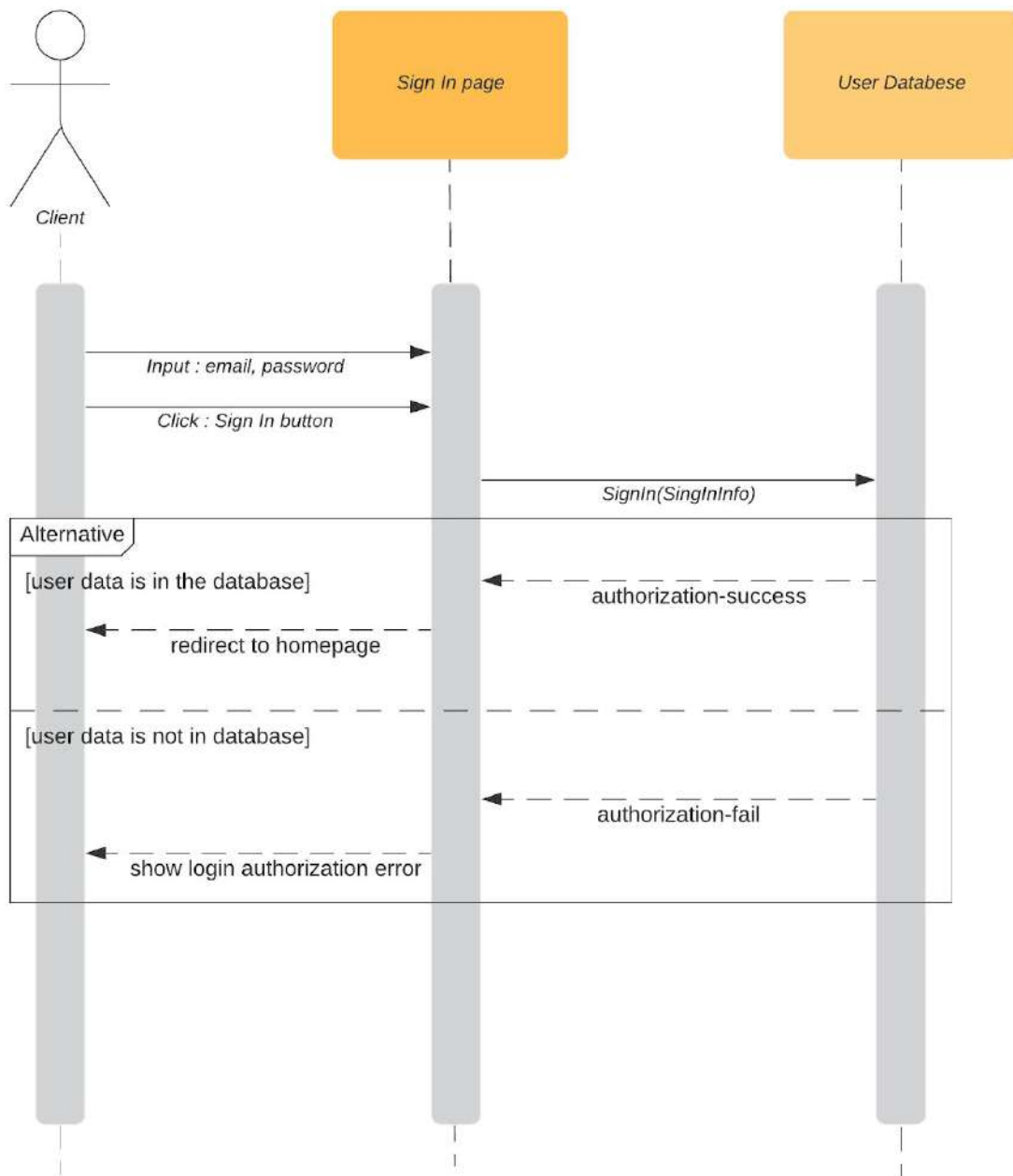
Search Sequence Diagram

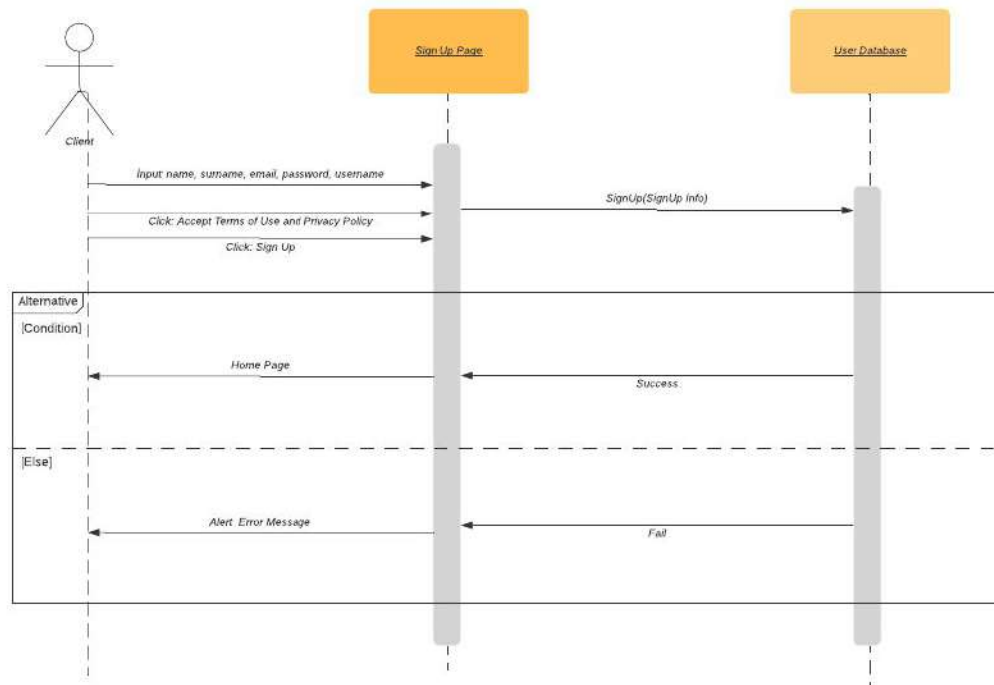
Emre | April 22, 2020



Make Order
















L - Lead S - Secondary C - Contributor A - Approval R - Reviewer N - None	Kayacan Vesek	Emre Hoşer	Volkan Bulca	Misra Yavuz	Zeynep Çayırçimen	İsmet Sarı	Muhammed Halas	Yaşar Selçuk Çalışkan	Sertay Akpınar	Emre Demir
Project Repository										
Creating Personal Wiki Pages	C	C	C	C	C	C	C	C	C	N
Creating Wiki Home Page	A	R	L	R	R	C	R	N	R	N
Customizing README.md	A	R	A	N	N	L	R	N	N	N
Taking meeting notes	C	C	C	C	L	C	C	C	C	N
Creating Trello account	N	N	N	L	N	N	N	N	N	N
Opening a Doodle to decide the meeting time	C	C	C	C	C	C	L	C	C	N
Creating Slack account for communication	N	L	N	N	N	N	N	N	N	N
Creating a communication plan	R	C	C	A	N	L	R	N	N	N
Assigning members on Trello	L	C	C	C	C	C	C	C	C	N
Adding labels	A	L	A	A	A	A	A	A	A	N
Requirements										
Determining the requirement subsections	N	N	N	L	N	N	N	N	N	N
Preparing the draft of the Requirements Page	L	N	A	N	N	S	N	N	N	N
Preparing the Deployment / Availability Requirements	A	N	R	N	N	C	N	R	N	N
Prepare the Security Requirements	A	N	C	N	N	R	N	R	N	N
Prepare the Performance Requirements	A	N	N	C	N	N	R	R	N	N

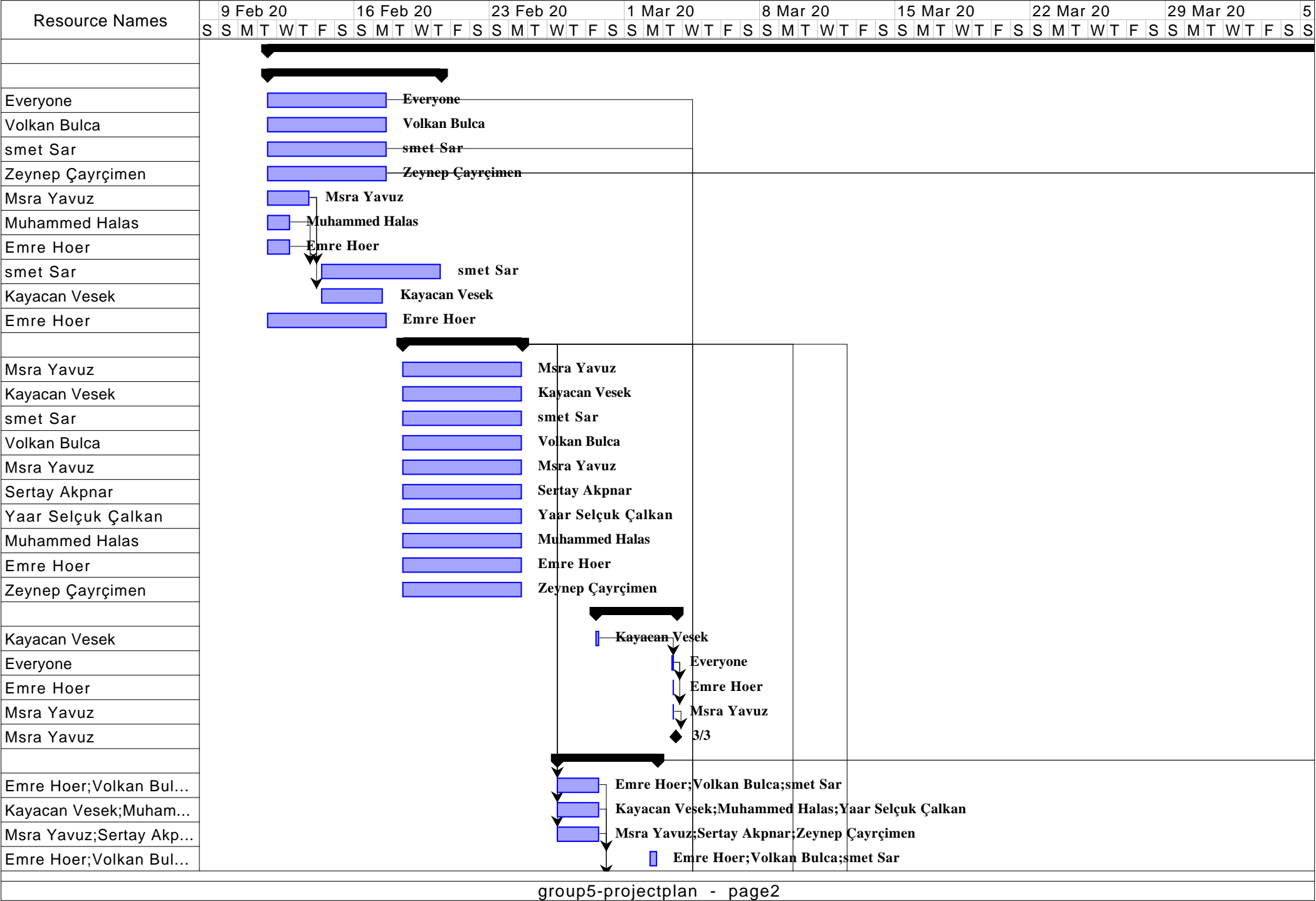
L - Lead S - Secondary C - Contributor A - Approval R - Reviewer N - None	Kayacan Vesek	Emre Hoşer	Volkan Bulca	Misra Yavuz	Zeynep Çayırçimen	İsmet Sarı	Muhammed Halas	Yaşar Selçuk Çalışkan	Sertay Akpınar	Emre Demir
Prepare the User Basics Requirements	A	N	N	N	R	R	N	N	L	N
Prepare the Searching / Listing Requirements	A	N	R	R	N	N	N	C	N	N
Prepare the User Interactions Requirements	A	N	N	N	N	N	C	N	N	N
Prepare the Vendor / Customer Specific Interactions Requirements	A	C	N	N	R	R	N	N	N	N
Prepare Protocols and Ethical Issues Requirements	A	N	N	N	C	N	R	N	R	N
Customer Meeting										
Arrange the customer meeting	L	R	R	R	R	R	R	R	R	N
Attending customer meeting	C	C	C	C	C	C	C	C	C	N
Asking questions to customer	C	L	C	C	C	C	C	C	C	N
Taking meeting notes	N	N	N	L	N	N	N	N	N	N
Documenting meeting notes	N	N	N	L	N	N	N	N	N	N
Scenarios & Mockups										
Prepare Guest Scenario	N	C	C	N	N	C	N	N	N	N
Prepare Vendor Scenario	C	N	N	N	N	N	C	C	N	N
Prepare Customer Scenario	N	N	N	C	C	N	N	N	C	N
Create Guest Mockup	N	C	C	N	N	C	N	N	N	N
Create Vendor Mockup	C	N	N	N	N	N	C	C	N	N

L - Lead S - Secondary C - Contributor A - Approval R - Reviewer N - None	Kayacan Vesek	Emre Hoşer	Volkan Bulca	Misra Yavuz	Zeynep Çayırçimen	İsmet Sarı	Muhammed Halas	Yaşar Selçuk Çalışkan	Sertay Akpınar	Emre Demir
Create Customer Mockup	N	N	N	C	C	N	N	N	C	N
Revision & Modifications										
Adding glossary to requirements	C	C	C	C	C	C	C	C	C	C
Reorganizing requirements	C	C	C	C	C	C	C	C	C	C
Improving personal wiki pages	C	C	C	C	C	C	C	C	C	C
Survey for project name	C	C	C	C	C	C	L	C	C	C
Adding team photo to READ.ME	R	A	A	A	A	L	A	A	S	A
Logo design	R	C	A	A	A	A	A	A	A	A
Modifying scenarios and mockups	C	C	C	C	C	C	C	C	C	C
Final check for requirements	A	N	N	N	N	N	N	N	N	N
Design - UML Diagrams										
Tool decision for diagrams	C	C	C	C	C	C	C	C	C	C
Create Use-Case diagram	N	N	N	C	C	N	N	N	N	N
Create Class Diagram	C	N	C	N	N	C	N	N	N	N
Create Sequence Diagram	N	C	N	N	N	N	C	C	C	N
Final decision for project logo and project name	C	C	C	C	C	C	C	C	C	C
Update Use-Case Diagram	N	N	N	C	C	N	N	N	N	N

L - Lead S - Secondary C - Contributor A - Approval R - Reviewer N - None	Kayacan Vesek	Emre Hoşer	Volkan Bulca	Misra Yavuz	Zeynep Çayırçimen	İsmet Sarı	Muhammed Halas	Yaşar Selçuk Çalışkan	Sertay Akpınar	Emre Demir
Frontend Initialization of Project	A	N	N	C	C	N	N	N	C	N
Mobile Initialization of Project	A	C	C	N	N	C	N	N	N	C
Backend Initialization of Project	C	N	N	N	N	N	C	C	N	N
Research Items										
Research for the required API's like login	N	N	N	S	S	N	N	N	L	N
Determine for a requirement tracking system	R	L	C	N	N	C	N	N	N	C
Implementation qualification control	L	N	N	N	N	N	C	C	N	N
Implementation Milestones #1										
Frontend Milestone #1	R	N	N	L	C	N	N	N	C	N
Backend Milestone #1	R	C	C	N	N	C	N	N	N	C
Mobile Milestone #1	L	N	N	N	N	N	C	C	N	N
Implementation Milestones #2										
Frontend Milestone #2	R	N	N	L	C	N	N	N	C	N
Backend Milestone #2	R	C	C	N	N	C	N	N	N	C
Mobile Milestone #2	L	N	N	N	N	N	C	C	N	N
Deciding Milestones Goals										
Backend Milestone Goal	R	A	A	L	C	A	A	A	C	A


















[illegible]

		Name	Duration	Start	Finish	Predecessors
1		bupazar	301.042 ...	2/11/20 12:00 PM	12/8/20 1:00 PM	
2		Project Repository	9.042 da...	2/11/20 12:00 PM	2/20/20 1:00 PM	
3		Creating Personal Wiki Pages	1.5 days	2/11/20 12:00 PM	2/17/20 5:00 PM	
4		Creating Wiki Home Page	1.5 days?	2/11/20 12:00 PM	2/17/20 5:00 PM	
5		Customizing README.md	1.5 days?	2/11/20 12:00 PM	2/17/20 5:00 PM	
6		Taking meeting notes	1.5 days?	2/11/20 12:00 PM	2/17/20 5:00 PM	
7		Creating Trello account	0.833 days?	2/11/20 12:00 PM	2/13/20 5:00 PM	
8		Opening a Doodle to decide the meeting...	0.5 days?	2/11/20 12:00 PM	2/12/20 5:00 PM	
9		Creating Slack account for communication	0.5 days?	2/11/20 12:00 PM	2/12/20 5:00 PM	
10		Creating a communication plan	1.5 days?	2/13/20 5:00 PM	2/20/20 1:00 PM	7;8;9
11		Assign members on Trello	0.5 days?	2/13/20 5:00 PM	2/17/20 1:00 PM	7
12		Adding labels	1.5 days?	2/11/20 12:00 PM	2/17/20 5:00 PM	
13		Requirements	6.208 day...	2/18/20 12:00 PM	2/24/20 5:00 PM	
14		Determining the requirement subsections	1.5 days?	2/18/20 12:00 PM	2/24/20 5:00 PM	
15		Prepare the draft of the Requirements P...	1.5 days?	2/18/20 12:00 PM	2/24/20 5:00 PM	
16		Prepare the Deployment / Availability Re...	1.5 days?	2/18/20 12:00 PM	2/24/20 5:00 PM	
17		Prepare the Security Requirements	1.5 days?	2/18/20 12:00 PM	2/24/20 5:00 PM	
18		Prepare the Performance Requirements	1.5 days?	2/18/20 12:00 PM	2/24/20 5:00 PM	
19		Prepare the User Basics Requirements	1.5 days?	2/18/20 12:00 PM	2/24/20 5:00 PM	
20		Prepare the Searching/Listining Require...	1.5 days?	2/18/20 12:00 PM	2/24/20 5:00 PM	
21		Prepare the User Interactions Requireme...	1.5 days?	2/18/20 12:00 PM	2/24/20 5:00 PM	
22		Prepare the Vendor/Customer Specific I...	1.5 days?	2/18/20 12:00 PM	2/24/20 5:00 PM	
23		Prepare Protocols and Ethical Issues Req...	1.5 days?	2/18/20 12:00 PM	2/24/20 5:00 PM	
24		Customer Meeting	4.208 day...	2/28/20 12:00 PM	3/3/20 5:00 PM	
25		Arrange the customer meeting	0.167 days?	2/28/20 12:00 PM	2/28/20 5:00 PM	
26		Attending customer meeting	0.021 days?	3/3/20 12:00 PM	3/3/20 1:30 PM	25
27		Asking questions to customer	0.021 days?	3/3/20 1:30 PM	3/3/20 2:00 PM	26
28		Taking meeting notes	0.021 days?	3/3/20 1:30 PM	3/3/20 2:00 PM	26
29		Documenting meeting notes	0.042 days?	3/3/20 4:00 PM	3/3/20 5:00 PM	28
30		Scenarios & Mockups	5.208 day...	2/26/20 12:00 PM	3/2/20 5:00 PM	
31		Prepare Guest Scenario	2.208 days?	2/26/20 12:00 PM	2/28/20 5:00 PM	13
32		Prepare Vendor Scenario	2.208 days?	2/26/20 12:00 PM	2/28/20 5:00 PM	13
33		Prepare Customer Scenario	2.208 days?	2/26/20 12:00 PM	2/28/20 5:00 PM	13
34		Create Guest Mockup	3 days?	2/28/20 5:00 PM	3/2/20 5:00 PM	31



[illegible]

3 Jan 21				
S	M	T	W	T





		Name	Duration	Start	Finish	Predecessors
35		Create Vendor Mockup	3 days?	2/28/20 5:00 PM	3/2/20 5:00 PM	32
36		Create Customer Mockup	3 days?	2/28/20 5:00 PM	3/2/20 5:00 PM	33
37		Revision & Modifications	9.042 day...	3/4/20 12:00 PM	3/13/20 1:00 PM	
38		Adding glossary to requirement page	1.167 days?	3/4/20 12:00 PM	3/9/20 5:00 PM	13
39		Reorganizing requirements	1.167 days?	3/4/20 12:00 PM	3/9/20 5:00 PM	13
40		Improving personal wiki pages	1.167 days?	3/4/20 12:00 PM	3/9/20 5:00 PM	3
41		Survey for project name	1.167 days?	3/4/20 12:00 PM	3/9/20 5:00 PM	
42		Adding team photo to READ.ME	1.167 days?	3/4/20 12:00 PM	3/9/20 5:00 PM	5
43		Logo design	1.167 days?	3/9/20 5:00 PM	3/13/20 1:00 PM	41
44		Modifying scenarios and mockups	1.167 days?	3/4/20 12:00 PM	3/9/20 5:00 PM	30
45		Final check for requirements	1.167 days?	3/9/20 5:00 PM	3/13/20 1:00 PM	13;39
46		Design - UML Diagrams	32.208 da...	3/12/20 12:00 PM	4/13/20 5:00 PM	
47		Tool decision for diagrams	0.5 days?	3/12/20 12:00 PM	3/13/20 5:00 PM	
48		Create Use-Case Diagram	4.208 days?	3/12/20 12:00 PM	3/16/20 5:00 PM	13
49		Create Class Diagram	4 days?	3/16/20 5:00 PM	3/20/20 5:00 PM	48
50		Create Sequence Diagram	4 days?	3/20/20 5:00 PM	3/24/20 5:00 PM	49
51		Final decision for project logo and proje...	2.833 days?	3/13/20 1:00 PM	3/25/20 5:00 PM	41;43
52		Update Use-Case Diagram	6.208 days?	4/7/20 12:00 PM	4/13/20 5:00 PM	48
53		Update Class Diagram	6.208 days?	4/7/20 12:00 PM	4/13/20 5:00 PM	49
54		Update Sequence Diagrams	6.208 days?	4/7/20 12:00 PM	4/13/20 5:00 PM	50
55		Deciding file name convention	1.5 days?	4/7/20 12:00 PM	4/13/20 5:00 PM	
56		Project Plan	7.208 day...	4/14/20 12:00 PM	4/21/20 5:00 PM	
57		Collection of meeting notes	3.208 day...	4/14/20 12:00 PM	4/17/20 5:00 PM	
58		Collection of first 4 weeks meeting notes	1.167 days?	4/14/20 12:00 PM	4/17/20 5:00 PM	6
59		Collection of last 4 weeks meeting notes	1.167 days?	4/14/20 12:00 PM	4/17/20 5:00 PM	6
60		Collection of deliverables and tasks	4 days?	4/17/20 5:00 PM	4/21/20 5:00 PM	
61		User scenarios	0 days?	4/17/20 5:00 PM	4/17/20 5:00 PM	30
62		Mockups	2 days?	4/18/20 5:00 PM	4/20/20 5:00 PM	30
63		UML Diagrams	2 days?	4/19/20 5:00 PM	4/21/20 5:00 PM	46
64		Summary	7.208 day...	4/21/20 12:00 PM	4/28/20 5:00 PM	
65		Executive Summary	7.208 days?	4/21/20 12:00 PM	4/28/20 5:00 PM	
66		Summary of work done	1.167 days?	4/21/20 12:00 PM	4/24/20 5:00 PM	
67		Skeletons of the Project	7.208 day...	4/28/20 12:00 PM	5/5/20 5:00 PM	
68		Research and Find APIs	7.208 days?	4/28/20 12:00 PM	5/5/20 5:00 PM	

3 Jan 21				
S	M	T	W	T

Resource Names	9 Feb 20							16 Feb 20							23 Feb 20							1 Mar 20							8 Mar 20							15 Mar 20							22 Mar 20							29 Mar 20							5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
										<div> <div></div> <div>Muhammed Halas;Volkan Bulca;M.Emre Demir</div> </div>									
										<div> <div></div> <div>Emre Hoer;Kayacan Vesek</div> </div>									
										<div> <div></div> <div>Kayacan Vesek;Zeynep Çayrçimen;smet Sar</div> </div>									
										<div> <div></div> <div>Sertay Akpnar;Muhammed Halas;Yaar Selçuk Çalkan</div> </div>									
										<div> <div></div> <div>Zeynep Çayrçimen;Emre Hoer;M.Emre Demir</div> </div>									
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 Msra Yavuz;
 Emre Hoer;M.Emre Demir;
 Kayacan Vesek;Muhammed

3 Jan 21

S	M	T	W	T
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group5-pr...

		Name	Duration	Start	Finish	Predecessors
100		Frontend Milestone #3	8 days	11/30/20 1:00 PM	12/8/20 1:00 PM	
101		BackendMilestone #3	8 days	11/30/20 1:00 PM	12/8/20 1:00 PM	
102		Mobile Milestone #3	7.208 day...	11/30/20 1:00 PM	12/7/20 6:00 PM	
103			7.208 days?	11/30/20 1:00 PM	12/7/20 6:00 PM	

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Resource Names	9 Feb 20							16 Feb 20							23 Feb 20							1 Mar 20							8 Mar 20							15 Mar 20							22 Mar 20							29 Mar 20							5
	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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Emre Hoer;M.Emre De...																																																									
Kayacan Vesek;Muha...																																																									

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Apr 20					12 Apr 20					19 Apr 20					26 Apr 20					3 May 20					10 May 20					17 May 20					24 May 20					31 May 20					7 Jun 20								
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F

[illegible]

Oct 20				1 Nov 20				8 Nov 20				15 Nov 20				22 Nov 20				29 Nov 20				6 Dec 20				13 Dec 20				20 Dec 20				27 Dec 20										
T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S

Msra Yavuz;Sertay Akpnar;Zeynep Çayrçimen

Emre Hoer;M.Emre Demir;Volkan Bulca;smet Sar

3 Jan 21
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