



# Medical Experience Sharing Platform

*Milestone Report I*

*CmpE352, Group 4*

*Spring 2022*

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## Table of Contents

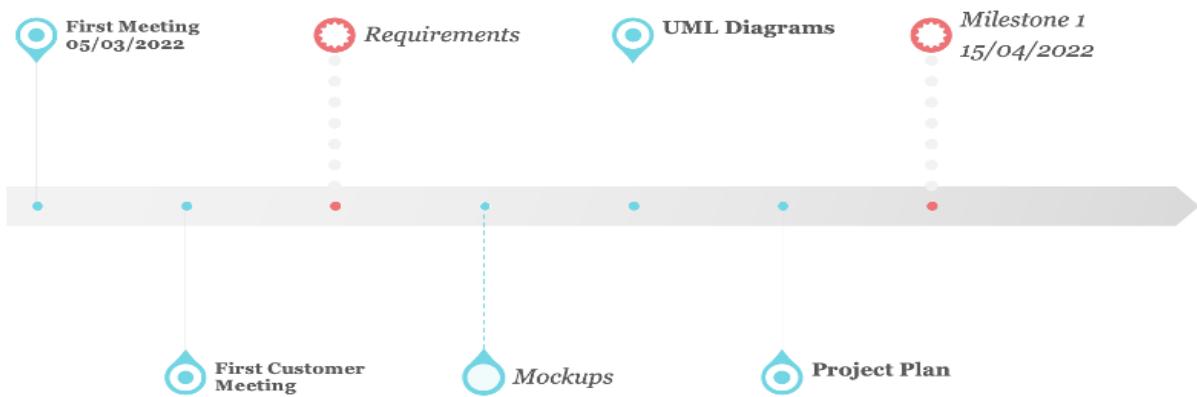
<b>Overview</b>	<b>3</b>
<b>Executive Summary</b>	<b>3</b>
<b>List and status of deliverables</b>	<b>5</b>
<b>Evaluation of status of deliverables</b>	<b>6</b>
<b>Evaluation of tools and processes</b>	<b>7</b>
<b>Work done so far</b>	<b>9</b>
<b>Deliverables</b>	<b>20</b>
<b>Communication Plan</b>	<b>20</b>
<b>Requirements</b>	<b>21</b>
Glossary	21
1. Functional Requirements	23
1.1 User Requirements	23
1.2 System Requirements	26
2. Non-functional Requirements	28
<b>Scenarios</b>	<b>30</b>
<i>Scenario &amp; Mockup I</i>	30
<i>Scenario &amp; Mockup II</i>	37
<i>Scenario &amp; Mockup III</i>	42



<b>Diagrams</b>	<b>47</b>
Use Case Diagram	47
Class Diagram	48
Sequence Diagrams	49
1. Report a Post	49
2. Upvote a Post	50
3. Comment on Post	51
4. Follow a Category	52
5. Delete a Post	53
6. Delete a Comment	54
7. Create a Post	55
8. Login	56
9. Forgot Password	57
10. Block a User	58
11. Unblock a User	59
12. Change Category of a Post by a Health Professional	60
13. Ban a user by an Admin	61
14. Send Message	62
15. Follow a Health Professional	63
16. Register as Regular User	64
17. Register as Health Professional	65
18. Edit Profile Information	66
<b>Project Plan &amp; RAM</b>	<b>67</b>
<b>Project Plan</b>	<b>67</b>
<b>RAM</b>	<b>72</b>

## Overview

The basic flow of what we've done so far is presented in chronological order as below.



## Executive Summary

The project is intended to be a medical experience and domain-specific knowledge-sharing platform. It also provides users with a restricted social environment in which users can communicate via chatting and commenting under discussion posts.

It is planned to be available as a native web and Android application providing the very same features within them.

## Description

Guests are only limited to viewing posts and are expected to register to chat, post, comment, and follow. RegisteredUsers are composed of regular users, health professionals, and admins.

Users can create a Post under a Category to which they can attach location, photo, and video. A Category is a medical specialty or subspecialty in which Posts can be placed for users to access Posts in a modular way. Posts have a Tag to indicate the type of a Post. Health professionals can change the Category of a Post. A Post can have zero or more Comments. A

Comment can have zero or more Comments as replies. Users can upvote and report a Post or a Comment. Admins can delete posts, comments and ban users upon reported activities.

Users are limited to following only Categories and health professionals on purpose to not have a following mechanism similar to social media platforms' more flexible ones, but they can communicate with any other RegisteredUser via chatting.

Users are provided with a Chatbot interacting with them. It is planned to have pre-defined answers to valid keywords and invalid keywords determined. Users are directed to the corresponding answer in accordance.

The platform is planned to have SearchEngine for users and guests to have some advanced search, filtering, and sorting facilities. RegisteredUsers are also provided with a NotificaitonEngine.

## Project Status

Team members met each other within the first week and came up with the solutions to the organizational matters. Microsoft Teams&Trello workspace was set up along with Slack workspace and Git repository.

Members organized Wiki of the repository and tried to learn issue tracking and collaborative working in the following two weeks. Requirement elicitation process started after project descriptions were given. At first, it was a little bit hard for team members to come up with clear and consistent requirements. It was then team members also started struggling to meet regularly with high attendance. However, with the help of feedback assessed in customer meetings, members succeeded in creating scenarios and corresponding mock-ups in a way that meets the expectations of the customer. Later on, team members started to prepare Use Case Diagram, Class Diagram, and Sequence Diagrams. It's still in progress and to be delivered via this report.

## Moving Forward

It needs to have a new communication plan before going through the practice application development process.

The platform name was temporarily determined and exact name and logo are to be determined. The following milestones are to be documented with a better organization within the team.



## List and status of deliverables

Name	Due	Delivery Date	Prepared By
Requirements	15.04.2022	15.04.2022	Miraç Batuhan Malazgirt, Sanberk Serbest, Yusuf Bayındır, Berat Damar, Umut Deniz Şener, Erdinç Günaydın, Elif Toklu, Oğuzhan Tok
Scenarios and Mock-ups	23.03.2022	15.04.2022	Everyone
Use Case Diagram	15.04.2022	15.04.2022	Everyone
Class Diagram	15.04.2022	15.04.2022	Everyone
Sequence Diagram	15.04.2022	15.04.2022	Everyone
Communication Plan	8.03.2022	15.04.2022	Sanberk Serbest, Berat Damar, Oğuzhan Tok
Responsibility Assignment Matrix	15.04.2022	15.04.2022	Miraç Batuhan Malazgirt, Umut Deniz Şener
Project plan	15.04.2022	15.04.2022	Miraç Batuhan Malazgirt, Oğuzhan Tok, Hatice Kübra Aksu,
Project repository and issue tracking.	15.04.2022	15.04.2022	Everyone
Milestone Report I	15.04.2022	15.04.2022	Everyone

## Evaluation of Status of Deliverables

### Communication Plan

After the first meeting, we decided to come up with a communication plan. We assigned some group members for determining a communication plan. Whatsapp was determined for immediate communication, Teams was determined for meetings, Trello was determined for project management, Slack was determined for communication with TAs, and also Github was determined for issue tracking. Our meeting attendance record was high at the meetings that we made.

### Requirements

Firstly, we wrote the requirements according to the project description. Also, we gathered some questions to ask in customer meetings. After customer meetings, our requirements page started to look more complete because we updated our requirements page after each customer meeting according to feedback that we have got. As of now, our requirements page can easily lead us during the implementation process.

### User Scenarios and Mockups

We planned to make three scenarios and three corresponding mock-ups. Our scenarios reflect the three main users of our application: Doctors, Admins, and normal users. Since we have planned to make three scenarios we divided into three groups. Each group was responsible for its scenarios. We first wrote our scenarios and then we prepared two web mock-ups for a normal user, admin scenarios, and a mobile application mock-up for the doctor scenario.

After preparing these scenarios and mock-ups we got feedback from the customer and reviewed the scenarios and mock-ups again. The final shape of the scenarios and two web, one mobil mock-ups are presented in this report.

### Design Diagrams

First of all, we researched the previous year's use case and class diagrams and also reviewed the related lecture about the diagrams. After that, we realized that in order to begin to sequence diagrams, we first need to complete our class and use - case diagrams. We decided that everyone should construct at least an entity for these diagrams and also we should keep track of the correct relationship between these entities. After constructing these entities, some

group members drew the diagrams and connected these entities together according to their relationships.

After constructing the class and use case diagrams, we decided that every team member should do at least one sequence diagram. Sequence diagrams were constructed also and added to the milestone report and wiki of the repo with class and use case diagrams. These diagrams will lead us while coding the project.

## **Project Plan and RAM**

We have first of all done the executive summary and evaluation parts of the report. We defined the tasks done so far and wrote them into the Responsibility Assignment Matrix. After that, we decided which tasks are we going to do and their estimated durations. Also, we assigned appropriate members to these future jobs. Finally, we created a Gantt chart using Project Libre.

## **Evaluation of Tools and Processes**

### **Trello**

Trello helps us to organize our tasks. Thanks to Trello, we are able to manage which task is being done by whom. It makes it easy to divide tasks into subteams. Every member of subteams can see which tasks should be done and which of them are currently in progress.

### **Slack**

We used slack to communicate with TAs and Prof. Uskudarlı up to now. We know that Slack is a communication app that can be easily integrated with many different apps. It has a user-friendly and simplistic interface. Another useful feature is the persistent state; when you log in after some time, it shows you the last message you have seen. That makes it easier to track messages.

### **Github**

Github is a platform where all the work that we have done gets together. We keep ourselves up to date by following the wiki page. It gives the opportunity to trace individuals by using Github's commit history. Using the issue system we can easily identify the undone issues, prioritize them and then focus them. That feature also traces the individual effort of every team member.

## Draw.io

Draw.io is a useful platform providing users a free means for drawing charts, schematics, diagrams etc. It has various built-in templates allowing users to easily create visualizations of works with different formats and purposes. This tool enabled us to create our mock-ups for scenarios.

## Lucidchart

Lucidchart is quite a useful proprietary platform that is used to allow users to collaborate on drawing and sharing charts and diagrams. One of the most significant advantages of Lucidchart is being easy to use. It is a well fit tool if you are working as a team to draw some diagrams or charts simultaneously. It gives enough properties when you use your boun email address to log in.

## Microsoft Teams

We organize our meetings on Microsoft Teams. You can create a subchannel for a subteam. The sub teams are able to continue their task in their subchannel without confusion with other subteams. It provides simultaneous meetings at the same time. Every task meeting can be traced. Therefore, you can see who attends which meeting.

## WhatsApp

We are using WhatsApp during emergent situation to receive quick responses. WhatsApp is not an optimal solution to provide communication between team members since it does not have multiple channel support. Therefore, we try to avoid it unless we have to use it.

## Work Done So Far

### Berat Damar

- Attending all weekly meetings and customer meetings(check all meeting and customer meeting notes in our repo to confirm my attendance record)
- Creating my own Wiki Page(Link: <https://github.com/bounswe/bounswe2022group4/wiki/Berat-Damar>)
- Making communication plan and Determining Platforms for communication and pools for time(Links: <https://github.com/bounswe/bounswe2022group4/issues/7> , <https://github.com/bounswe/bounswe2022group4/wiki/Communication-Plan> and <https://github.com/bounswe/bounswe2022group4/issues/11> )
- Discovering some repository and select my best (LeetCode CLI: <https://github.com/bounswe/bounswe2022group4/wiki/Github-Repository-Examples> )
- Research about Git and send to Yusuf Bayındır for documenting (<https://github.com/bounswe/bounswe2022group4/wiki/Git-Research> )
- Arranging Home Wiki Page (<https://github.com/bounswe/bounswe2022group4/issues/14> )
- Preparing questions for Customer Meeting with Elif Tokluoğlu(<https://github.com/bounswe/bounswe2022group4/issues/21> )
- Listing user interaction(communication) requirements (<https://github.com/bounswe/bounswe2022group4/issues/21> )
- Doing research about websites similar to our project (<https://github.com/bounswe/bounswe2022group4/issues/23> )
- Creating scenario #1 and its Mockup(also templates for other Mockups)(<https://github.com/bounswe/bounswe2022group4/issues/34> )
- Taking and documenting Weekly Meeting Note 4 (<https://github.com/bounswe/bounswe2022group4/issues/45> and <https://github.com/bounswe/bounswe2022group4/wiki/Meeting-%234-24.03.2022> )
- Taking Customer Meeting Notes #1 and documenting it .(<https://github.com/bounswe/bounswe2022group4/issues/79> )
- Taking Customer Meeting Notes #2 and documenting it .(<https://github.com/bounswe/bounswe2022group4/issues/81> )
- Improving user interactions(communication) requirements after customer meetings. (<https://github.com/bounswe/bounswe2022group4/issues/38> )
- Improving Scenario #1 and Mockups after customer meetings with Yusuf Bayındır(You can see revision history (<https://github.com/bounswe/bounswe2022group4/wiki/Mockups> )
- Adding new requirements meeting with Batuhan Malazgirt ([https://github.com/bounswe/bounswe2022group4/wiki/Requirements\\_compare/f37a11022ccd4a3d2091d59cc822f8ef8964291a...ed9345430b854124ad3f1bfb3bac330cf2e48600](https://github.com/bounswe/bounswe2022group4/wiki/Requirements_compare/f37a11022ccd4a3d2091d59cc822f8ef8964291a...ed9345430b854124ad3f1bfb3bac330cf2e48600) )
- Research on Use Case, Class and Sequence Diagram ( <https://github.com/bounswe/bounswe2022group4/issues/63> )
- Determining and designing Admin Use Case (<https://github.com/bounswe/bounswe2022group4/issues/71> )
- Adding Post entity to Class Diagram(<https://github.com/bounswe/bounswe2022group4/issues/61> and <https://github.com/bounswe/bounswe2022group4/wiki/Class-Diaqram> )
- Preparing “Follow a Health Professional” sequence diagram (<https://github.com/bounswe/bounswe2022group4/issues/58> )

- Updating README according to project requirements for Milestone 1  
(<https://github.com/bounswe/bounswe2022group4/issues/76> )
- Updating Wiki Home Page to contain all links related to jobs done so far.  
(<https://github.com/bounswe/bounswe2022group4/issues/77> )
- Taking and documenting Customer Meeting Notes #3 (<https://github.com/bounswe/bounswe2022group4/issues/83> )
- Researching on W3C Web Annotation Data Model and W3C standards and documenting it  
(<https://github.com/bounswe/bounswe2022group4/issues/80>)
- Taking and documenting Customer Meeting Notes #4 (<https://github.com/bounswe/bounswe2022group4/issues/88> )
- Preparing requirements to match all diagrams and scenarios  
(<https://github.com/bounswe/bounswe2022group4/issues/87> )
- Milestone 1 :Evaluating tools and processes that we have used to manage project(<https://github.com/bounswe/bounswe2022group4/issues/89> )
- Reviewing Responsibility Assignment Matrix (<https://github.com/bounswe/bounswe2022group4/issues/84> )
- Reviewing Sequence Diagrams (<https://github.com/bounswe/bounswe2022group4/issues/65> ,  
<https://github.com/bounswe/bounswe2022group4/issues/67> )

## Elif Tokluoğlu

- Attending all weekly meetings and customer meetings (check our meeting and customer meeting notes in our repo to confirm my attendance record)
- Creating my own Wiki Page ([wiki page](#))
- Researching some GitHub repositories ([the art of command line](#))
- Research about Git and markdown
- Preparing questions for Customer Meeting with Berat Damar ([issue](#)) ([wiki page](#))
- Research on W3C Web Annotation Data Model ([issue](#)) ([wiki page](#))
- Listing communication requirements for user requirements ([issue](#))
- Contributed to the preparation of user scenario
- Review user scenario mock-up
- Research on Use Case Diagrams ([issue](#))
- Research on Class Diagrams ([issue](#))
- Research on Sequence Diagrams ([issue](#))
- Determining guest use cases in Use Case Diagram ([issue](#))
- Adding Category and Tag entities to Class Diagram ([issue](#))
- Preparing User Ban Sequence Diagram ([issue](#)) ([issue](#))
- Preparing Change Category of a Post Sequence Diagram ([issue](#)) ([issue](#))
- Review use case diagram
- Review class diagram

## Miraç Batuhan Malazgirt

- Attending all weekly meetings and PS sessions ( customer meetings ).

[Meeting #1](#), [Meeting #2](#), [Meeting #3](#), [Meeting #4](#), [Meeting#5](#), [Meeting #6](#)

[Customer Meeting #1](#), [Customer Meeting #2](#), [Customer Meeting #3](#), [Customer Meeting #4](#)

- Creating my own personal wiki page.

[Personal wiki page link](#).

- Researching Creative Labels and Editing Built-in Labels

[Related Issue](#)

[Label List](#)

- Researching for an interesting Github repo and documenting my thoughts about repo.

[Example #6](#)

- Examining project paper, researching past repos and listing admin and doctor requirements.

[Related Issue](#)

- Preparing Questions for the Customer Meeting.

[Related Issue](#)

- Taking and uploading weekly meeting note #3..

[Related Issue](#)

[Meeting Notes #3](#)

- Preparing the details of the admin scenario (scenario #2), preparing user scenarios template for all subgroups to work on and filling the details of the admin scenario to that template.

[Related Issue #1](#)

[Related Issue #2](#)

[Scenario #2](#)

- Creating mock-up for Scenario #2 ( Admin Scenario ).

[Related Issue](#)

- 
- Adding and revising more than 70+ requirements according to the customer meeting feedback.  
[Revision History](#)  
[Related Issue](#)
  - Preparing “send messages to another user” sequence diagram.  
[Related Issue #1](#)  
[Related Issue #2](#)
  - Adding “Comment” entity to the Class Diagram.  
[Related Issue](#)
  - Preparing user use cases for use case diagram.  
[Related Issue](#)
  - Drawing Use Case Diagram in Lucidchart.  
[Related Issue](#)
  - Review of Mockup and scenario #2 according to customer meeting feedback.  
[Related Issue](#)
  - Doing research on UML Diagrams.  
[Related Issue](#)
  - Reviewing Sequence Diagrams.  
[Related Issue #1](#)  
[Related Issue #2](#)  
[Related Issue #3](#)
  - Preparing List and Status of Deliverables for Milestone Report I.  
[Related Issue](#)
  - Preparing Evaluation of the status of the deliverables for Milestone Report I.  
[Related Issue](#)
  - Preparing Responsibility Assignment Matrix for Milestone Report I.  
[Related Issue](#)
  - Preparing project plan for Milestone Report I.  
[Related Issue](#)

## Oğuzhan Tok

- Attending all weekly meetings and customer meetings
- Creating my own Wiki Page  
(<https://github.com/bounswe/bounswe2022group4/wiki/Oğuzhan-Tok>)
- Research about Git and markdown
- Researching some GitHub repositories, and select “assetfinder”  
(<https://github.com/bounswe/bounswe2022group4/wiki/Github-Repository-Examples>)
- Making Communication Plan and Determining Platforms for Communication  
(<https://github.com/bounswe/bounswe2022group4/issues/7>)  
(<https://github.com/bounswe/bounswe2022group4/wiki/Communication-Plan>)
- Adding some questions for customer meeting  
(<https://github.com/bounswe/bounswe2022group4/wiki/Questions>)
- Listing security requirements for system requirements  
(<https://github.com/bounswe/bounswe2022group4/issues/20>)
- Contributed to the preparation of admin scenario and mockup  
(<https://github.com/bounswe/bounswe2022group4/issues/46>)  
(<https://github.com/bounswe/bounswe2022group4/issues/36>)
- Determining inheritance of the users in Use Case Diagram  
(<https://github.com/bounswe/bounswe2022group4/issues/73>)
- Preparing "Block User" Sequence Diagram  
(<https://github.com/bounswe/bounswe2022group4/issues/59>)  
(<https://github.com/bounswe/bounswe2022group4/issues/55>)
- Preparing Location Class for Class Diagram  
(<https://github.com/bounswe/bounswe2022group4/issues/106>)  
(<https://github.com/bounswe/bounswe2022group4/issues/52>)
- Preparing "Unblock User" Sequence Diagram  
(<https://github.com/bounswe/bounswe2022group4/issues/60>)  
(<https://github.com/bounswe/bounswe2022group4/issues/55>)
- Milestone 1: Preparing Project Plan  
(<https://github.com/bounswe/bounswe2022group4/issues/102>)
- Adding Sequence Diagrams to Github Wiki  
(<https://github.com/bounswe/bounswe2022group4/issues/109>)
- Review admin scenario mock-up
- Review class diagram
- Review Sequence Diagrams  
(<https://github.com/bounswe/bounswe2022group4/issues/55>)

## Yusuf Bayındır

- Attended all team and customer meetings.

[Meeting #1](#), [Meeting #2](#), [Meeting #3](#), [Meeting #4](#), [Meeting#5](#), [Meeting #6](#)

[Customer Meeting #1](#), [Customer Meeting #2](#), [Customer Meeting #3](#), [Customer Meeting #4](#)

- Notetaker for Meeting#1 and Meeting #6.
- A bit of arrangement on README and Wiki sidebar.
- [issue#2](#)
- Creation of personal page.

[issue#5](#)

- Research Git as a version management system. Preparation of Git Research Page.

[issue#12](#), [Git Research](#)

- Listing nonfunctional requirements.

[issue#31](#)

- Contribution to functional requirements.
- Creation of Scenario I. Design Mock-up for Scenario I.

[#issue34](#), [Scenarios](#), [Mock-ups](#)

- Revision of Glossary.

[#issue53](#)

- Class Design.

[#issue54](#), [Class Design Tracking](#)

- Use Case Design

[issue#71](#)

- Sequence Diagram Design

[#issue98](#), [Sequence Diagram Tracking](#)

- Milestone Report I: Executive Summary

[#issue100](#)

- Milestone Report I: Sequence Design Diagrams, Project Plan.

## Sanberk Serbest

- Attended team and customer meetings.

[Meeting #1](#), [Meeting #2](#), [Meeting #3](#), [Meeting #4](#), [Meeting#5](#), [Meeting #6](#)

[Customer Meeting #1](#), [Customer Meeting #2](#), [Customer Meeting #3](#), [Customer Meeting #4](#)

- Notetaker for Meeting #2

[Issue #25](#)

- GitHub repo research



### Issue #9

- Preparing communication plan, determination and setup of the communication tools  
[Issue #7](#), [Issue #10](#)
- Personal wiki page creation  
[Issue #8](#)
- Chatbot related system requirements and relevant questions.  
[Issue #28](#)
- Creation of admin scenario (a.k.a. scenario #2) and mockup.  
[Issue #36](#), [Issue #46](#)
- Class Diagram Design.  
[Issue #107](#)
- Use Case Diagram Design  
[Issue #72](#)
- Sequence Diagram Design  
[Issue #92](#), [Issue #93](#), [Issue #94](#)
- Review and modification of Requirements page  
[Issue #101](#)
- Acceptance criteria modifications in the scenarios.  
[Issue #108](#)
- Milestone Report I

### **Umut Deniz Şener**

- Attending all weekly meetings and customer meetings (check all meeting and customer meeting notes in our repo to

- confirm my attendance record)
- Creating my own Wiki Page  
<https://github.com/bounswe/bounswe2022group4/wiki/Umut-Deniz-Sener>
  - Discovering some repository and select Build Your Own X repository.:  
<https://github.com/bounswe/bounswe2022group4/wiki/Github-Repository-Examples> )
  - Finding creative labels, customizing built-in labels and adding them to the current issues.  
<https://github.com/bounswe/bounswe2022group4/issues/4>  
<https://github.com/bounswe/bounswe2022group4/labels>  
<https://github.com/bounswe/bounswe2022group4/issues/16>
  - Adding some questions for Customer Meeting  
<https://github.com/bounswe/bounswe2022group4/wiki/Questions>
  - Listing authentication requirements for users  
<https://github.com/bounswe/bounswe2022group4/issues/22>
  - Doing research about websites similar to our project (<https://github.com/bounswe/bounswe2022group4/issues/23>)
  - Creating scenario #3 and its Mockup  
<https://github.com/bounswe/bounswe2022group4/issues/33>
  - Taking and documenting Weekly Meeting Note 5  
<https://github.com/bounswe/bounswe2022group4/wiki/Meeting-%235,-03.04.2022>
  - Research on Use-case, Class and Sequence Diagram  
<https://github.com/bounswe/bounswe2022group4/issues/63>
  - Determine the user use cases.  
<https://github.com/bounswe/bounswe2022group4/issues/69>
  - Draw the use case diagram with lucidchart  
<https://github.com/bounswe/bounswe2022group4/issues/74>
  - Create a sequence diagram for Create Discussion Thread  
<https://github.com/bounswe/bounswe2022group4/issues/99>
  - Create Chat and Message classes for class diagram.  
<https://github.com/bounswe/bounswe2022group4/issues/90>
  - Preparing up to date wiki pages, Glossary and Requirements for Milestone I  
<https://github.com/bounswe/bounswe2022group4/issues/87>
  - Updating the requirements according to customer meeting feedback.  
<https://github.com/bounswe/bounswe2022group4/issues/75>
  - Preparing Responsibility Assignment Matrix for Milestone I  
<https://github.com/bounswe/bounswe2022group4/issues/84>

## Yiğit Can Özka

- Attending all weekly meetings and customer meetings except week one
- Creating my Wiki Page  
(<https://github.com/bounswe/bounswe2022group4/wiki/Yigit-Can-Ozkaya>)
- Research about Git and markdown
- Researching some GitHub repositories
- Drawing the class diagram with lucidchart

<https://github.com/bounswe/bounswe2022group4/wiki/Issues/74>

- Preparing mock-up for doctor scenario (<https://github.com/bounswe/bounswe2022group4/wiki/Issues/44>)
- Checking others works and reviewing these (<https://github.com/bounswe/bounswe2022group4/wiki/Issues/44>)
- Preparation of doctor scenario (<https://github.com/bounswe/bounswe2022group4/wiki/Issues/33>)
- Researching about know-how of diagrams
- Searching different sources to prepare scenarios and mock-ups
- Review admin scenario mock-up
- Reviewing class diagram issues.
- Preparing login sequence diagram
- Contributing registering sequence diagrams
- Creating some communication groups for better understanding of each other and to-do jobs
- Creating mobile mock-ups for doctor scenario
- Milestone Report I
- Adding Sequence Diagram's to Milestone Report and GitHub

## Erdinç Günaydın

- Attended all weekly meetings and all customer meetings.

[Meeting #1](#), [Meeting #2](#), [Meeting #3](#), [Meeting #4](#), [Meeting #5](#), [Meeting #6](#)

[Customer Meeting #1](#), [Customer Meeting #2](#), [Customer Meeting #3](#), [Customer Meeting #4](#)

- Created own wiki page.  
[Personal wiki page link](#).

- 
- Researched version management system. Prepared Git Research Page with frequently used commands.  
[issue#12](#), [Git Research](#)
  - Search, recommendation and notification requirements of system requirements.  
[issue#27](#) , [issue#29](#) , [issue#30](#)
  - Creation of Scenario III. Redesign Mock-up for Scenario III.  
[issue#47](#), [issue#33](#), [Scenarios](#), [Mock-ups](#)
  - Organizing, reviewing and controls of sequence diagrams.  
[Sequence Diagram Organizing-issue#55](#)
  - Sequence Diagrams  
[issue#62](#) , [issue#64](#) , [issue#65](#), [issue#66](#) , [issue#67](#)
  - Class Diagrams  
[issue#68](#) , [issue#82](#)
  - Use Case Diagram  
[issue#73](#)
  - Milestone Report I



## Hatice Kübra Aksu

- Attended team and customer meetings
- Adding some questions for customer meeting
- Contributed to the preparation of admin scenario and mockup
- Contributed to the preparation of user scenario and mockup
- Contributed to the preparation of doctor scenario and mockup
- Design Mock-up for Scenario I, II, III
- Review admin scenario mock-up
- Review use case diagram
- Review class diagram
- Review Sequence Diagrams
- Milestone 1: Preparing Project Plan



## Deliverables

### Communication Plan

<i>Platform</i>	<i>Purpose</i>	<i>Time</i>	<i>Participants</i>
<b>Teams</b>	Talking about weekly progress, discussing research, distributing tasks among group members.	Thursday, 18:00 (GMT+3)	All team members
<b>Trello</b>	Project management and easy communication about tasks in progress.	Any time	All team members
<b>Slack</b>	Communication with Instructors/TAs.	Any time	All team members
<b>Github</b>	Issue tracking, project management, modular documentation via Wiki.	Any time	All team members
<b>Whatsapp</b>	Instant communication.	Any time	All team members



# Requirements

## Glossary

- User: A person who uses or interacts with the application.
- Guest: A person who uses or interacts with the application as an unregistered user.
- Regular User: A person who uses or interacts with the application as a registered user.
- Health Professional: Health care professionals from different specialties.
- Admin: A user type that has special privileges to manage the system.
- Category: Any medical specialty or subspecialty.
- Chatbot: Application that simulates a conversation with human users.
- Follow: Feature that users can use for tracking the discussion thread.
- Unfollow: Feature that users can use for untracking the discussion thread.
- Discussion Thread: Series of posts in forum or comment section that revolves around a single focused topic.
- Notification: The action to notify users.
- Username: Identification used by the users to access the application.
- Password: Secret word or phrase that must be used to access the application.
- Ban: Prohibit the access of the user from the application.
- Report: To inform admins of someone's bad or illegal posts or comments.
- Homepage: The introductory page of the application.

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- Search: The functionality that enables users to search a content in application.
  - Chat: Format that allows users to communicate with other users online.
  - Upvote: Feature that allows users to signal their approval or support for a post.
  - Validate: Check the accuracy of a document.
  - Sort: Put the data in a certain place or rank according to a class.
  - Filter: List the data by multiple criteria or conditions.
  - Post: Piece of writings with attachments under categories that are intended to share a medical experience or domain-specific knowledge.
  - Tag: An entity denoting a feature about a post.
  - Comment: Tool of communication and discussion under a post.
  - Tool: Some medical tests like BMI calculator, Body Surface Area Calculator, Pregnancy Due Date Calculator etc.
  - Timeline: Medium of displaying posts under followed categories and of followed health professionals.
  - Location: The physical address of a user.
  - Patient: An individual under certain medical care.
  - Disease: A pathological process, deviation from a biological norm.
  - Illness: A feeling or an experience of unhealth which is entirely personal, interior to the person of the patient (No disease can be found.).
  - Symptom: Any indication of disease perceived by the patient.
  - Drug: Any substance, other than food, used in the prevention, diagnosis, alleviation, treatment, or cure of disease.
  - Authentication: The ability to prove that a user is who that person claims to be.
  - Forum: A medium for sharing a medical experience or domain-specific knowledge via posts.
  - KVKK: The Law on the Protection of Personal Data No. 6698 in Turkey



## 1. Functional Requirements

### 1.1 User Requirements

#### 1.1.1 Authentication

- 1.1.1.1 Sign Up
  - 1.1.1.1.1 Users shall provide their first name and last name.
  - 1.1.1.1.2 Users shall provide a username and e-mail address that are unique in the system.
  - 1.1.1.1.3 Users shall be notified by a message “This username/e-mail address is already in use. Please enter a new username/e-mail address.” if they enter a username or email address that is already in use .
  - 1.1.1.1.4 Users shall set a password that is longer than 8 characters and contains at least one upper case letter, one lower-case letter, and one number.
  - 1.1.1.1.5 Users shall confirm the password by writing the same password again.
  - 1.1.1.1.6 Verification codes shall be sent to the email accounts after clicking the “Sign Up” button at the end of the registration page.
  - 1.1.1.1.7 Users shall write their verification codes to the page that is shown after the Sign-Up button is clicked.
  - 1.1.1.1.8 Health professionals shall be able to register as privileged user.
  - 1.1.1.1.9 Health professionals shall provide all the information that users provide for registration.
  - 1.1.1.1.10 Health professionals shall provide their national ID information for verification and their proficiency.
  - 1.1.1.1.11 Health professionals shall write the verification code that is sent to their e-mails.
  - 1.1.1.1.12 Health professionals shall be verified by a check of their national ID in the database.
  - 1.1.1.1.13 Health professionals shall be privileged after their accounts validated.
- 1.1.1.2. Sign In

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- 1.1.1.2.1 Users shall provide their e-mails and passwords for signing in.
  - 1.1.1.2.2 Users shall get a warning message which is "Your e-mail or password is wrong." if the provided e-mail or password is wrong.
  - 1.1.1.2.3 Users shall see the home page after signing in successfully.
  - 1.1.1.2.4 Users shall be able to reset their passwords when they forgot using the "I forgot my password" mechanism.
  - 1.1.1.3. Reset Password
    - 1.1.1.3.1 Users shall provide their e-mail accounts for resetting their passwords.
    - 1.1.1.3.2 Users shall be able to select a new password after verifying the code that is sent to their emails.

## **1.1.2. User Interactions**

- 1.1.2.1 Forum
  - 1.1.2.1.1 Users shall be able to create posts.
  - 1.1.2.1.2 Users shall be able to comment under other users' post and comments.
  - 1.1.2.1.3 Users shall add a title while creating posts.
  - 1.1.2.1.4 Users shall add a body text to their posts and comments.
  - 1.1.2.1.5 Users shall be able to add images to their posts and comments.
  - 1.1.2.1.6 Users shall select categories of their posts from a specified set of categories.
  - 1.1.2.1.7 Users shall be able to share location in their posts and comments.
  - 1.1.2.1.8 Users shall be able to read a post shared by another user.
  - 1.1.2.1.9 Users shall be able to edit their posts and comments.
  - 1.1.2.1.10 Users shall be able to delete their posts and comments.
  - 1.1.2.1.11 Users shall be able to report other users' posts and comments.
  - 1.1.2.1.12 Users shall be able to upvote other users' posts and comments.
  - 1.1.2.1.13 Admins shall be able to delete any post or comment if required.
  - 1.1.2.1.14 Admins shall send a message to the post owner when a post is deleted.

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- 1.1.2.1.15 Health professionals shall be able to change the categories of any post.
  - 1.1.2.1.16 Users shall be able to see all posts.
  - 1.1.2.1.17 Users shall be able to refer to an external link in their posts or comments using hyperlinks.
  - 1.1.2.1.18 Users shall get a notification after their posts are commented, upvoted, or deleted.
  - 1.1.2.1.19 Admins shall get a notification after a post is reported.
  - 1.1.2.1.20 Users shall see health professionals' comments on posts as top comments.
  - 1.1.2.1.21 Users shall be able to follow health professionals.
  - 1.1.2.1.22 Users shall be able to unfollow health professionals.
  - 1.1.2.1.23 Users shall be able to follow categories.
  - 1.1.2.1.24 Users shall be able to unfollow categories.
  - 1.1.2.2 Profile Pages
    - 1.1.2.2.1 Users shall have a profile page.
    - 1.1.2.2.2 Users shall be able to log out from their profile pages.
    - 1.1.2.2.3 Users shall see other users' user type from their profile pages.
    - 1.1.2.2.4 Users shall see other users' avatars from their profile pages.
    - 1.1.2.2.5 Users shall see other users' past comments and post from their profile pages.
    - 1.1.2.2.6 Users shall have their usernames visible on their profile pages.
    - 1.1.2.2.7 Health professionals shall have their real names visible on their profile pages.
    - 1.1.2.2.8 Users shall have a label above their avatars that indicates they are regular users.
    - 1.1.2.2.9 Health professionals shall have a label above their avatars that indicates they are health professionals.
    - 1.1.2.2.10 Admins shall have a label above their avatars that indicates they are admins.
  - 1.1.2.3 Chatting
    - 1.1.2.2.1 Users shall be able to send text messages to each other.

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- 1.1.2.2.2 Users shall be able to block another user.
  - 1.1.2.2.3 Users shall be able to unblock a user that they blocked.
  - 1.1.2.2.4 Users shall not be able to send messages to users who blocked them.
  - 1.1.2.2.5 Users shall not be able to receive messages from users who blocked them.
  - 1.1.2.4 Tool
    - 1.1.2.4.1 Users shall be able to access Tools from the homepage.
    - 1.1.2.4.2 Users shall be able to pass input if required by the tool.
  - 1.1.2.5 Timeline
    - 1.1.2.5.1 Users shall be able to see followed health professionals.
    - 1.1.2.5.2 Users shall be able to see followed categories.
    - 1.1.2.5.3 Users shall be able to see posts from followed health professionals with filtering and sorting options.
    - 1.1.2.5.4 Users shall be able to see posts from followed categories with filtering and sorting options.

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## 1.2 System Requirements

### 1.2.1. Search

- 1.2.1.1. The system shall enable users to search a health professional.
- 1.2.1.2. The system shall enable users to search a tag.
- 1.2.1.3. The system shall enable users to make an advanced search based on a keyword and/or a date and/or a location.
- 1.2.1.4. The system shall provide a sort option that reorders posts by their posted date.
- 1.2.1.5. The system shall provide a sort option that reorders posts by their number of comments.
- 1.2.1.6. The system shall provide a sort option that reorders posts by their number of upvotes.
- 1.2.1.7. The system shall provide a filtering option that filters posts according to their categories.
- 1.2.1.8. The system shall provide a filtering option that filters posts according to their posted date.

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- 1.2.1.9. The system shall provide a filtering option that filters posts according to their owners' user type.

### **1.2.2. Recommendation**

- 1.2.2.1. The system shall give recommendations to health professionals:
  - 1.2.2.1.1 Recommended posts shall be relevant to the proficiency of the health professional.
  - 1.2.2.1.2. Recommended posts shall be relevant to recently replied post tags by the health professional.
- 1.2.2.2. The system shall give recommendations to users:
  - 1.2.2.2.1. Recommended posts shall be relevant to recently viewed and created post categories by the user.
  - 1.2.2.2.2. The system shall recommend posts from followed users or health professionals.
  - 1.2.2.2.3. The system shall recommend top posts from the categories.

### **1.2.3. Chatbot**

- 1.2.3.1. Chatbot shall provide a set of predetermined questions that users can select between them.
- 1.2.3.2. Chatbot shall have a set of follow-up questions for every predetermined question.
- 1.2.3.3. Chatbot shall ask follow-up predetermined questions after user select a question.
- 1.2.3.4. Chatbot shall include predetermined questions about how users can use a specific functionality of the application.
- 1.2.3.5. Chatbot shall provide an information related to questions selected by the user.

### **1.2.4. Notification**

- 1.2.4.1. The system shall give users and health professionals the option to enable/disable the notification system for themselves.
- 1.2.4.2. The system shall send a notification to a user when a new post is created with followed tags.
- 1.2.4.3. The system shall have notification settings about created, replied, and followed posts.
  - 1.2.4.3.1. Notification settings shall include the options 'notify when a health professional replied' and 'notify when any user replied'.
  - 1.2.4.3.2. Notification settings shall have an option to stop getting notifications from a post.

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- 1.2.4.4. The system shall send a notification to the admin when a user reports an inappropriate post.

### **1.2.5. Forum**

- 1.2.5.1. The system shall show the number of upvotes given to a post or comment at the lower right corner of every post or comment.
- 1.2.5.2. The system shall show the number of comments made to a post or comment at the lower right corner of every post or comment.
- 1.2.5.3. The system shall show the category of a post at the lower-left corner of every post.
- 1.2.5.4. The system shall recommend posts from followed users and categories.
- 1.2.5.5. The system shall delete the whole discussion thread if the main post is deleted.
- 1.2.5.6. The system shall indicate as [deleted] if a comment is deleted.
- 1.2.5.7. The system shall not delete linked comments of a deleted comment.
- 1.2.5.8. The system shall highlight health professionals' comments on posts and display them as top comments.
- 1.2.5.9. The system shall provide healthcare-related categories to users.
- 1.2.5.10. The system shall display the top posts of the current category.

### **1.2.6. Admin Features**

- 1.2.6.1. Admins shall be able to see reported posts and comments.
- 1.2.6.2. Admins shall be able to ban users from the system temporarily or permanently.
- 1.2.6.3. Admins shall be able to delete posts and comments.

## **2. Non-Functional Requirements**

### **2.1 Reliability Requirements**

- 2.1.1. The system shall always run up to 2000 users.
- 2.1.2. The system shall be portable for website and application.
- 2.1.3. The system shall respond to any user no later than 4 seconds.

### **2.2 Availability Requirements**

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- 2.2.1. The system language shall be English.
  - 2.2.2. The system shall be available as a native web application in browsers.
  - 2.2.3. The system shall be available as a native mobile application on Android platforms.

### **2.3 Security**

- 2.3.1. The system shall prevent various cyber-attacks by providing SSL certificates to its users (HTTPS).
- 2.3.2. The system shall perform input validation properly wherever input is received such as forms, chatbot, etc.
- 2.3.3. The system shall provide an access control policy such that users cannot act outside of their intended permission.
- 2.3.4. The system shall use two-factor authentication for users trying to log into their accounts.
- 2.3.5. The system shall properly implement security configurations and perform any necessary hardening.
- 2.3.6. \*The system shall ensure an ongoing plan for monitoring, triaging, and applying updates or configuration changes for the lifetime of the application.
- 2.3.7. The system shall use the HTTPS protocol to transfer encrypted data over the web.

### **2.4 Standards**

- 2.4.1. The annotations shall be compliant with the W3C Web Annotation Data Model.

### **2.5. Legal Requirements**

- 2.5.1 The system shall contain a comprehensive, clear, and accessible privacy policy.
- 2.5.2. The system shall comply with the Law on the Protection of Personal Data No. 6698 (KVKK).
- 2.5.3. The system shall comply with GDPR.
- 2.5.4. Users shall accept the privacy policy suggested when registering.

## Scenarios and Mockups

### Scenario & Mockup I

#### Searching for an Experience of Physical Discomfort, Sarah Debons



- Age: 36
- Job: Human Resources Specialist

## History

- Sarah has been working as a human resources specialist for 12 years in the industry.
- She has a remarkably high emotional intelligence, which makes her successful in her professional career.
- She loves traveling to new places, exploring new tastes from different food cultures and trying them on her own, and night walks with her friends.
- However, there is something she wants to change in her lifestyle. In contrast to her ambitiousness in her professional career, she's been extremely lazy when it comes to

exercising. That's why she decides to start playing tennis. After enjoying her first week on tennis, she starts feeling a sharp pain in her elbow.

## Pre-conditions

- She is registered to the application.
- She is logged in to the application on her personal computer.
- She uses the web application and she is on the homepage of the application.

## Goals

- Sarah wants to learn possible reasons for elbow pain and how to relieve it.

## Acceptance Criteria

- 1.1.2.1.8 Users shall be able to read a post shared by another user.
- 1.1.2.1.15 Users shall be able to see all posts.
- 1.2.1.2. The system shall enable users to search a tag.
- 1.2.1.3. The system shall enable users to make an advanced search based on a keyword and/or a date and/or a location.
- 1.2.1.4. The system shall provide a sort option that reorders posts by their posted date.
- 1.2.1.5. The system shall provide a sort option that reorders posts by their number of comments.
- 1.2.1.6. The system shall provide a sort option that reorders posts by their number of upvotes.
- 1.2.1.7. The system shall provide a filtering option that filters posts according to their categories.
- 1.2.1.8. The system shall provide a filtering option that filters posts according to their posted date.
- 1.2.1.9. The system shall provide a filtering option that filters posts according to their owners' user type.
- 2.1.2. The system shall be portable for website and application.
- 2.2.2. The system shall be available as a native web application in browsers.

## Action List

1. She clicks on the search box located in the upper section of the homepage.
2. She types "elbow pain" on the search box and searches.
3. She is redirected to the search results.
4. She looks for her condition on the results of a search. Then, she clicks on a post.
5. She starts reading the post and encounters a comment shared by an orthopaedist.
6. She replies to the comment shared by the orthopaedist.
7. She rates the comment.
  
1. She is on the homepage.

**CATEGORIES**

- Coronavirus (COVID-19)
- Healthy Living
- Skin Health
- Show more

**TOOLS**

- BMI Calculator
- Body Surface Area Calculator
- Pregnancy Due Date Calculator
- Show more

**YOUR TIMELINE**

- Followed Categories
- Followed Health Professionals

**TOP POSTS FROM LAST WEEK**

**COVID vaccines** by **pamela5325**

I'm nervous about COVID vaccine. Do I really need to get vaccination and if so then which vaccine is the best or with less side effects?

Category: Coronavirus(COVID-19)      115      23     

**I feel powerless** by **alexandra\_14**

I feel powerless. I feel meaningless. I feel hopelessness. I have deep depression followed by suicidal thoughts.  
[More](#)

Category: Mental Health      78      14     

2. She clicks on the search box located in the upper section of the homepage.
3. She types "elbow pain" on the search box and searches.
4. She is redirected to the search results.

**SEARCH RESULTS**

**Shooting pain in my elbow** by **vuzin87**

Been having a shooting pain in my right elbow when rubbing it against something. It comes and goes quickly Anyone have an issue like this?

Category: Orthopedics

14 likes, 8 comments, Report Post

**Elbow surgery** by **lilasus\_89**

Has anyone else had a total elbow replacement operation? How has it been?

Category: Orthopedics

6 likes, 3 comments, Report Post

5. She starts reading the post and encounters a comment shared by an orthopaedist.

6. She replies to the comment shared by the orthopaedist.

The screenshot shows a healthcare forum interface. At the top, there's a navigation bar with a heart icon, the word "Healthcare", a search bar containing "elbow pain", and user profile icons for "sarah.debons". Below the navigation is a sidebar with categories like "Coronavirus (COVID-19)", "Healthy Living", "Skin Health", "Tools" (including BMI Calculator and Body Surface Area Calculator), and "Your Timeline".

The main content area displays a post titled "Shooting pain in my elbow" by user "vuzin87". The post asks if anyone has had a similar issue with shooting pain in their elbow. It includes a "Report Post" button. Below the post, a reply from "Charlotte Blackwell, MD" is shown, explaining that it might be lateral epicondylitis (tennis elbow) and suggesting rest, cold compresses, and painkillers. This reply has 6 likes and a "Report" button. A reply from "sarah.debons" thanking the responder is also visible, with 1 like and buttons for "Edit" and "Delete".

A large black arrow points from the "Reply" button in the original post's reply section to the "Edit" button in the second reply's footer.

7. She rates the comment.

The screenshot shows a healthcare forum interface with a search bar for "elbow pain". A sidebar on the left includes categories like "Coronavirus (COVID-19)", "Healthy Living", "Skin Health", "Tools" (with BMI Calculator, Body Surface Area Calculator, Pregnancy Due Date Calculator), and "Your Timeline" (Followed Categories, Followed Health Professionals). The main content area displays a post titled "Shooting pain in my elbow" by user "vuzin87". The post content is: "Been having a shooting pain in my right elbow when rubbing it against something. It comes and goes quickly Anyone have an issue like this?". Below the post are interaction metrics: a blue thumbs-up icon, the number "6", a blue speech bubble icon, the number "3", and a "Report Post" button. The post is categorized under "Orthopedic".

**5 Replies**

A reply from "Charlotte Blackwell, MD" (hygieia\_78) is shown, with a checkmark indicating it's a professional answer. The reply content is: "It's a bit hard to know the exact cause. However, it's probably due to lateral epicondylitis known also as tennis elbow. It happens after the overuse of the muscles near the elbow point. If the muscles are strained, tiny tears and inflammation can develop near the bony lump on the outside of your elbow. You should rest your elbow stop any activity that's stimulates the pain. Holding a cold compress against your elbow can help ease the pain. You can also think about taking painkillers such as paracetamol to reduce mild pain and inflammation just after seeing a professional". This reply has a blue thumbs-up icon, the number "7", a blue speech bubble icon, the number "3", and a "Report" button. An arrow points from the "7" to the "3".

Another reply from "sarah.debons" (hygieia\_78) is shown, with a checkmark indicating it's a professional answer. The reply content is: "Thanks a lot!". This reply has a blue thumbs-up icon, the number "1", an "Edit" button, and a "Delete" button.

[Show more](#)

## Scenario & Mockup II

### Removing an Inappropriate Content, Henry David



- Age: 40
- Job: Software developer

#### History

- Henry has been working as a software developer for 10 years.
- He lost one of his close friends due to a rare disease, which led him to devote himself to healthcare-related projects.
- As an admin, he aims to prevent the propagation of misleading information and provide users with a safe medical experience-sharing platform.

#### Pre-conditions

1. Henry is an admin of the application.
2. He is logged in to the application with admin privileges.
3. He can access all additional features of the application, which are not open to non-admin users.

#### Goals

1. He wants to remove inappropriate content posted by a user.
2. He wants to send a message to the user, who posted the content, explaining why the content is not appropriate and removed.

## Action List

1. Henry sees an inappropriate post on the timeline and wants to remove the post.
2. He clicks on the "Remove post" item located in the upper-right section of the post.
3. A pop-up window is opened asking for the message to be sent to the post-owner.
4. Henry types the reasons why the content is inappropriate and shall be removed.
5. He clicks the "confirm" button and deletes the post from the timeline.

## Acceptance Criteria

- 1.1.2.1.13 Admins shall be able to delete any post or comment if required.
- 1.1.2.1.14 Admins shall send a message to the post owner when a post is deleted.
- 1.2.6.3. Admins shall be able to delete posts and comments.
- 2.2.2. The system shall be available as a native web application in browsers.

## Action List

1. Henry sees an inappropriate post on the timeline and wants to remove the post.
2. He clicks on the "Remove post" item located in the upper-right section of the post.

The screenshot shows a mobile application interface for a healthcare platform. At the top, there is a navigation bar with a blue heart icon labeled "Healthcare", a search bar containing the text "elbow pain", and a magnifying glass icon. To the right of the search bar are icons for home, help, and notifications, along with a user profile for "sarah.debons".

The main content area is titled "SEARCH RESULTS" in bold black text. Below this, there are two search results cards.

**Post 1: Shooting pain in my elbow**

Description: Been having a shooting pain in my right elbow when rubbing it against something. It comes and goes quickly Anyone have an issue like this?

Category: Orthopedic

Interactions: 14 likes, 8 comments, 1 share, 1 report post.

Post 2: Elbow surgery

Description: %\$/&^+^+&+%/%%&fsdf.342#%+%^&sdio

Category: Orthopedic

Interactions: 6 likes, 3 comments, 1 share, 1 report post.

On the left side of the screen, there is a sidebar with three sections:

- CATEGORIES**: Includes links to "Coronavirus (COVID-19)", "Healthy Living" (which is highlighted in blue), "Skin Health", and a "Show more" link.
- TOOLS**: Includes links to "BMI Calculator", "Body Surface Area Calculator", "Pregnancy Due Date Calculator", and a "Show more" link.
- YOUR TIMELINE**: Includes links to "Followed Categories" and "Followed Health Professionals".

In the bottom right corner of the main content area, there is a red speech bubble icon with a white outline.

3. A pop-up window is opened asking for the message to be sent to the post-owner.

The screenshot shows a web-based healthcare platform interface. At the top, there's a navigation bar with a heart icon, the word "Healthcare", a search bar containing "elbow pain", and a magnifying glass icon. To the right of the search bar are icons for home, help, and account, with the account labeled "sarah.debons". Below the navigation is a sidebar with sections for "CATEGORIES" (Coronavirus (COVID-19), Healthy Living, Skin Health, Tools (BMI Calculator, Body Surface Area Calculator, Pregnancy Due Date Calculator), and Your Timeline (Followed Categories, Followed Health Professionals)). The main content area is titled "SEARCH RESULTS" and displays a post from "vuzin87" with the title "Shooting pain in my elbow". A message box titled "Message to the post-owner" contains the text: "Your post is removed since it does not contain a proper content. Please be more careful next time." There are "Remove Post" and "Report Post" buttons above the message, and "Confirm" and "Report Post" buttons below it. Another user profile "sus\_89" is visible on the right.

4. Henry types the reasons why the content is inappropriate and shall be removed.
5. He clicks the "confirm" button and deletes the post from the timeline.

The screenshot shows a mobile application interface for a healthcare platform. At the top, there is a navigation bar with a blue heart icon labeled "Healthcare", a search bar containing the text "elbow pain", and a magnifying glass icon. To the right of the search bar are icons for a home screen, help, and account, with the account labeled "sarah.debons". Below the navigation bar is a horizontal bar divided into four colored segments: gold, teal, orange, and dark brown.

The main content area is titled "SEARCH RESULTS" in bold capital letters. Below the title is a post card for a user named "vuzin87". The post title is "Shooting pain in my elbow". The post content reads: "Been having a shooting pain in my right elbow when rubbing it against something. It comes and goes quickly Anyone have an issue like this?". The post includes a "Remove Post" button, a profile picture of the user, and a timestamp "by vuzin87". Below the post are interaction metrics: a blue "Like" button with a white thumbs-up icon, a count of "14", a comment icon with a speech bubble, a count of "8", and a "Report Post" button.

On the left side of the screen, there is a sidebar with three sections: "CATEGORIES", "TOOLS", and "YOUR TIMELINE". The "CATEGORIES" section lists "Coronavirus (COVID-19)", "Healthy Living" (which is highlighted in blue), "Skin Health", and a "Show more" link. The "TOOLS" section lists "BMI Calculator", "Body Surface Area Calculator", "Pregnancy Due Date Calculator", and a "Show more" link. The "YOUR TIMELINE" section lists "Followed Categories", "Followed Health Professionals", and a pink message icon.

## Scenario & Mockup III

### Helping The Patients and Being Famous, Hagen Loris



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- Age: 30
  - Job: Medical Doctor / Orthopedist

## History

- Hagen is a doctor who has done his Ph.D. studies in orthopedics.
- He is not well known among patients as he has just graduated.
- He has many relatives who communicate over the phone to consult in the field of orthopedics and most of his advice has worked for his relatives.
- He realized that he can help patients and become known among patients via online platforms.
- He decided to register for our medical application.

## Pre-conditions

- Hagen has signed up for the application with his identity and doctor's license.
- His identity and doctor's license are verified in the system.
- He is able to sign in to the system and can comment on the discussions.
- He has created his profile with the necessary information that is public to the other users (age, area of expertise, schools, etc.).

## Goals

- Hagen would like to navigate to the homepage in order to see some posts.
- He also wants to communicate with patients and comment on their posts about their problems.

## Action List

1. Hagen clicks the home button located in the bottom-left section of the homepage.
2. He slides the screen and browses through the titles and tags of the posts.
3. He sees a post that has a tag about not being commented on by a doctor yet.
4. He clicks the relevant post.
5. He starts reading and leaves comments depending on his doctoral knowledge.

## Acceptance Criteria

- 1.1.2.1.2 Users shall be able to comment under other users' posts and comments.
- 1.1.2.1.8 Users shall be able to read a post shared by another user.
- 1.1.2.5.2 Users shall be able to see followed categories.
- 1.2.2.1. The system shall give recommendations to health professionals:
- 1.2.5.2. The system shall show the number of comments made to a post or comment at the lower right corner of every post or comment.
- 1.2.5.3. The system shall show the category of a post at the lower-left corner of every post.
- 1.2.5.4. The system shall recommend posts from followed users and categories.
- 1.2.5.8. The system shall highlight health professionals' comments on posts and display them as top comments.
- 2.1.2. The system shall be portable for website and application.
- 2.2.3. The system shall be available as a native mobile application on Android platforms.

## Action List

1. Hagen clicks the home button located in the bottom-left section of the homepage.
2. He slides the screen and browses through the titles and tags of the posts.
3. He sees a post that has a tag about not being commented on by a doctor yet.

The image shows a smartphone displaying a mobile application interface. The screen is titled "Suggested Posts". It lists four posts in a vertical feed:

- Death is everywhere !**  
I see death people. Is it caused by a disease or too much fiction?  
4 2
- About Pregnancy**  
Me and my boyfriend saves ourselves for the weeding but i got pregnant somehow. Can ...  
2 1
- I can't breath**  
Recently, I can't breath very well because of high stress. Can it be possible? Becaus...  
9 12
- Headache problem**  
Does constant usage of weed cause headache?



- He clicks the relevant post.



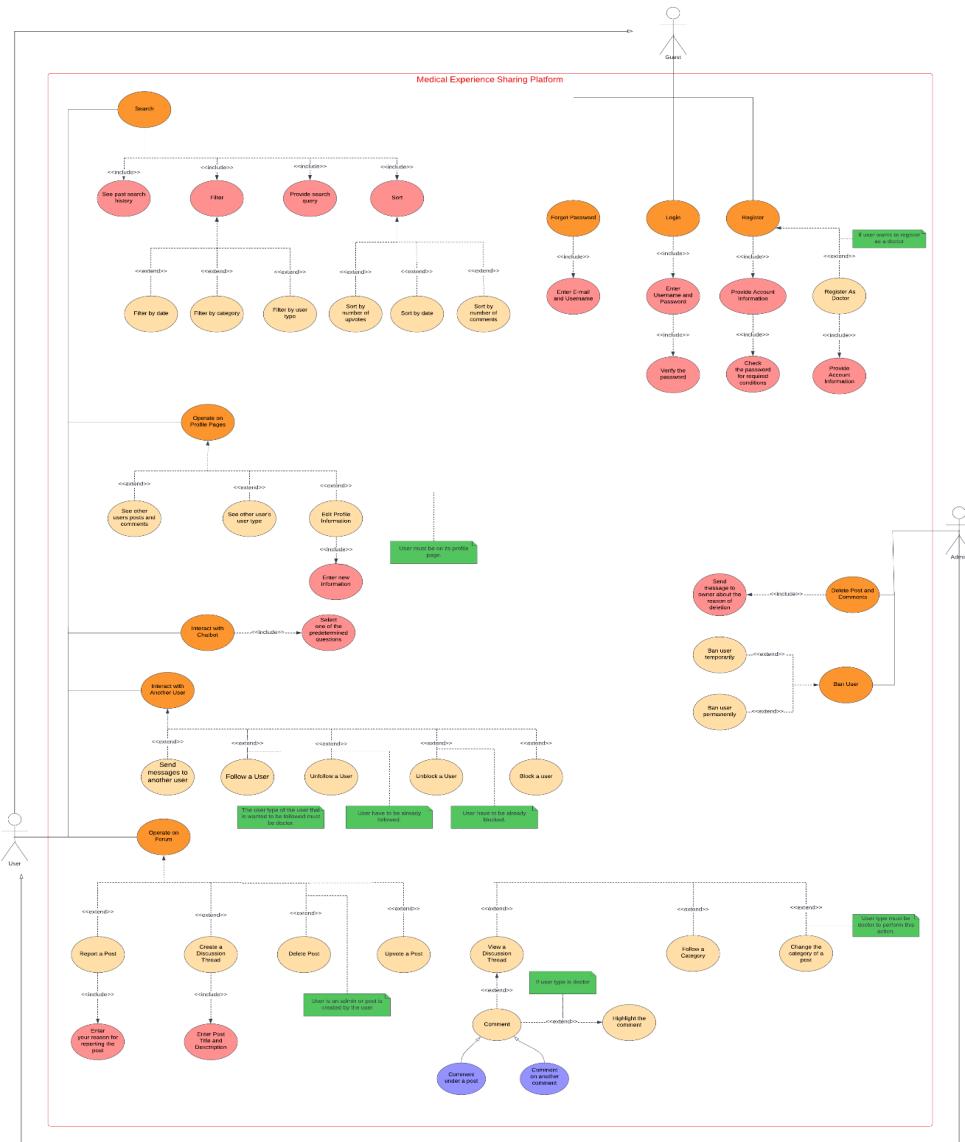
5. He starts reading and leaves comments depending on his doctoral knowledge.



# Diagrams

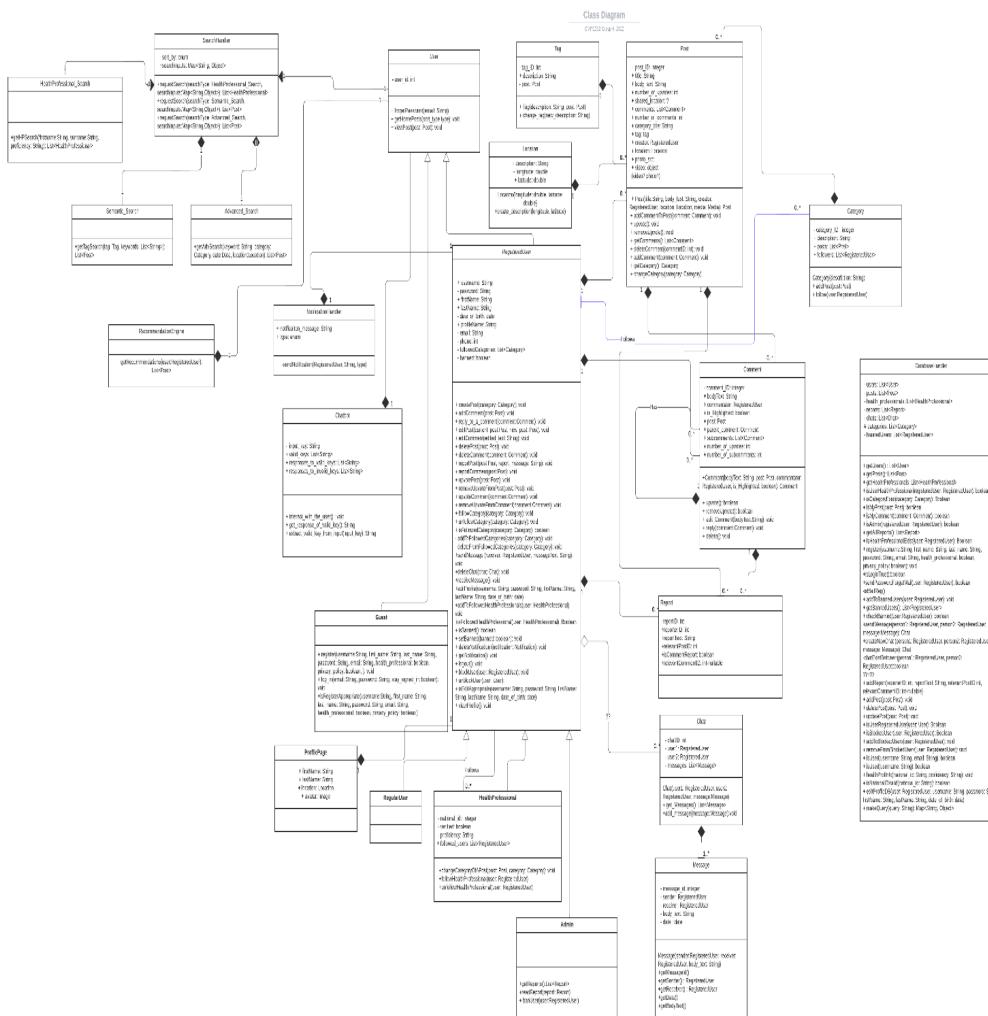
## Use Case Diagram

To see in Lucidchart: [Link](#).



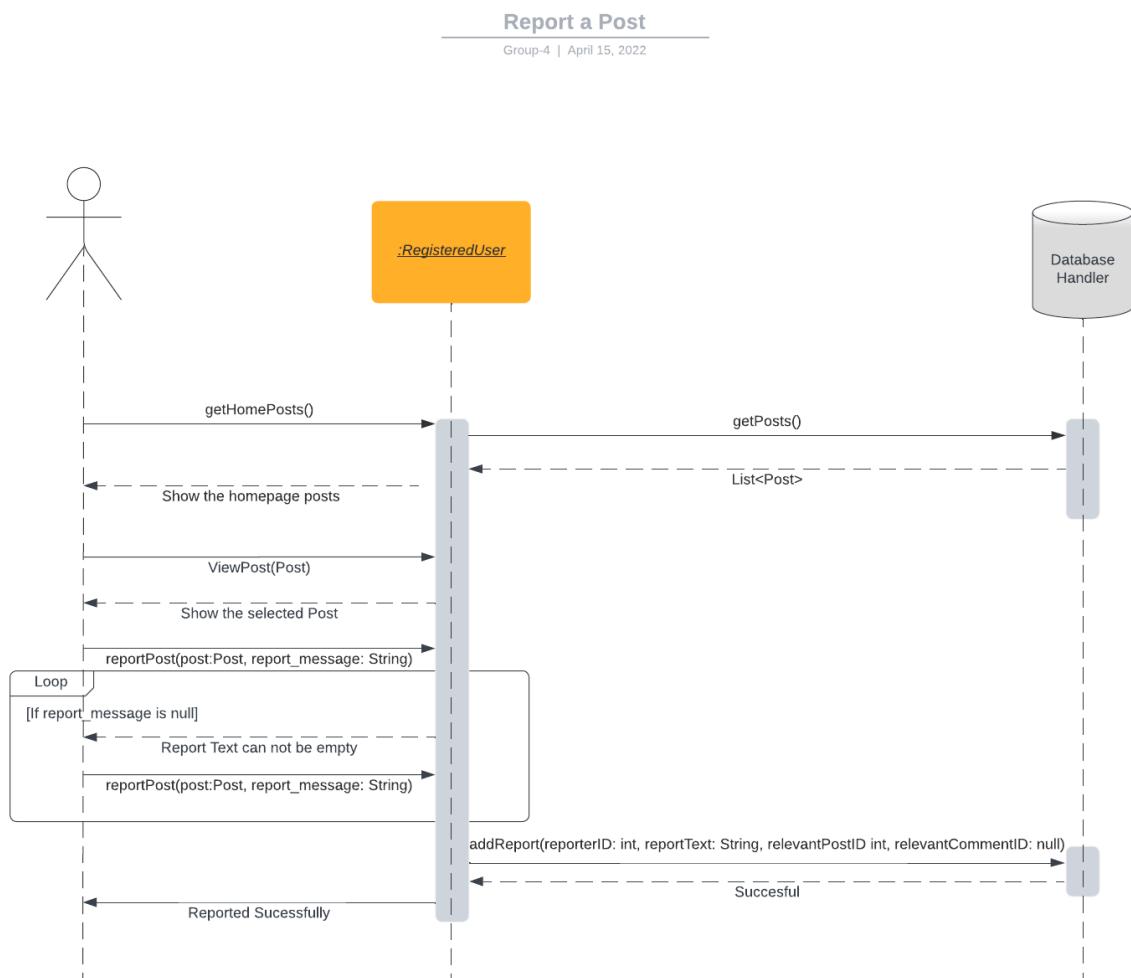
# Class Diagram

To see in Lucidchart: [link](#).



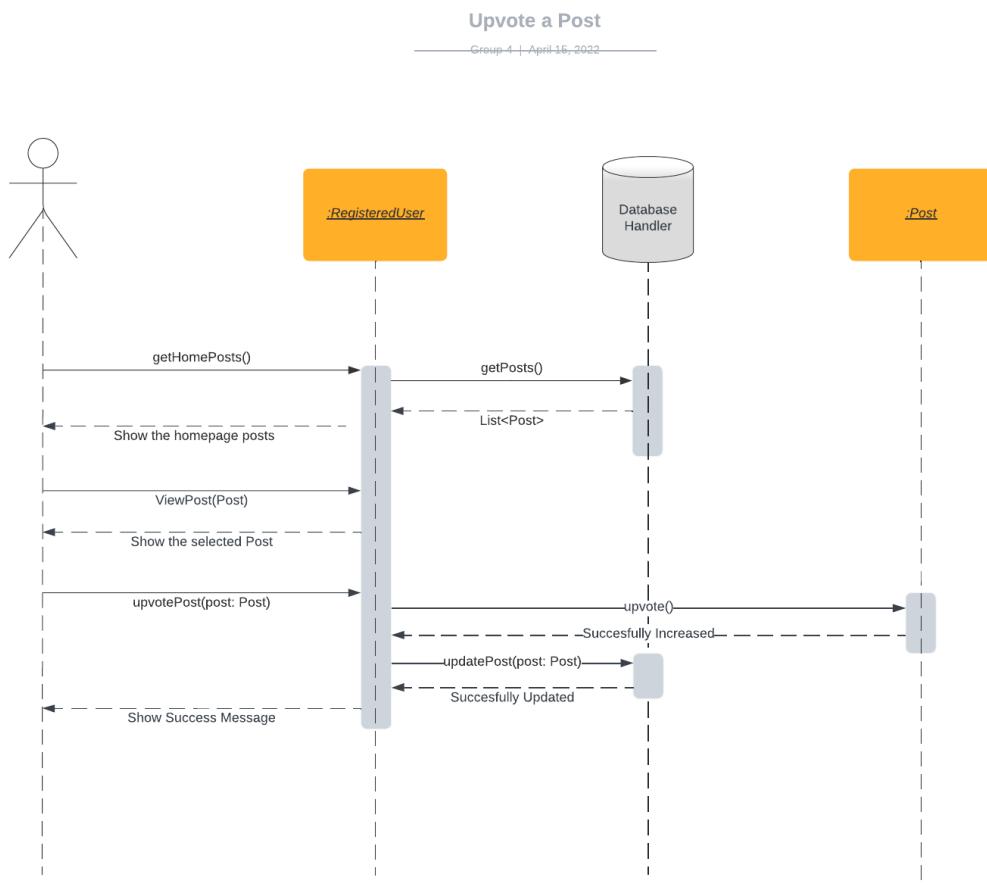
## Sequence Diagrams

### 1. Report a Post

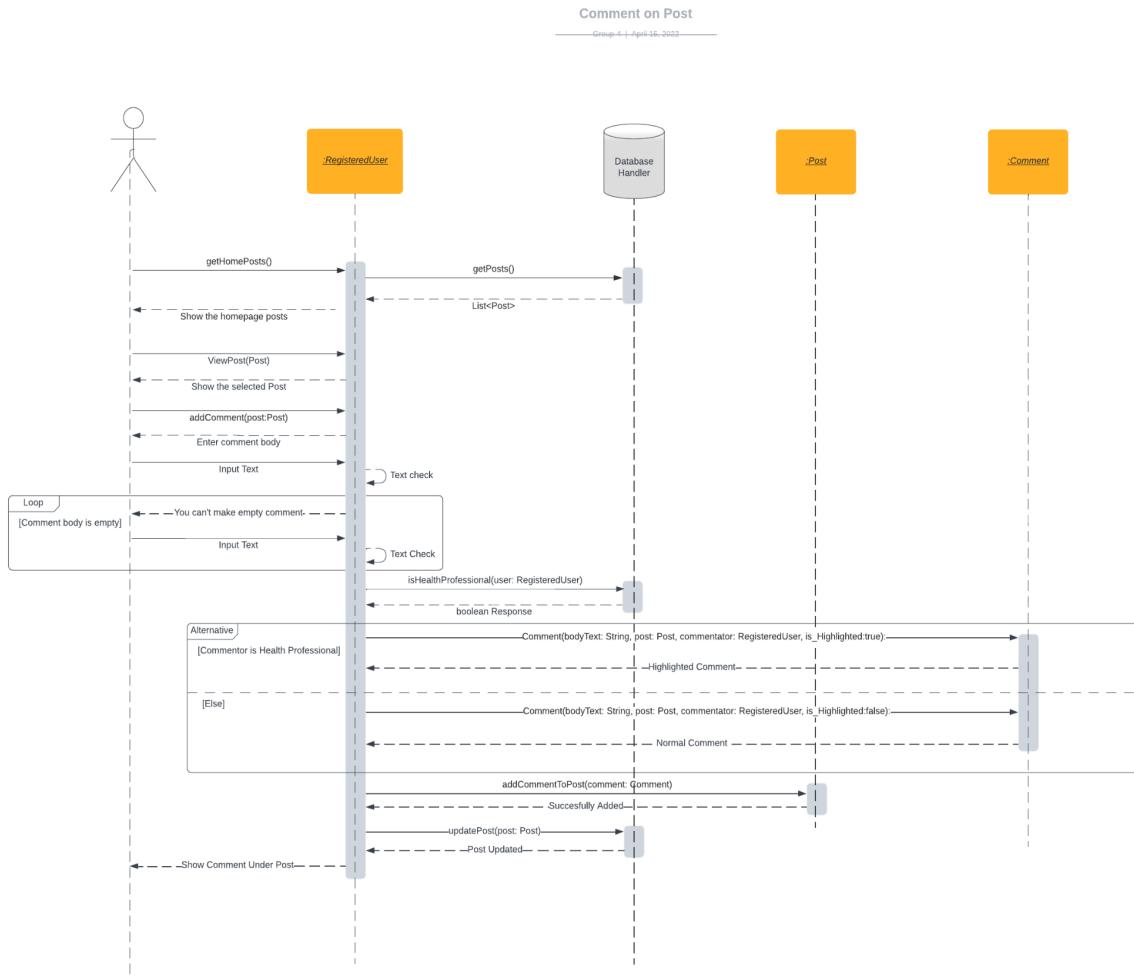




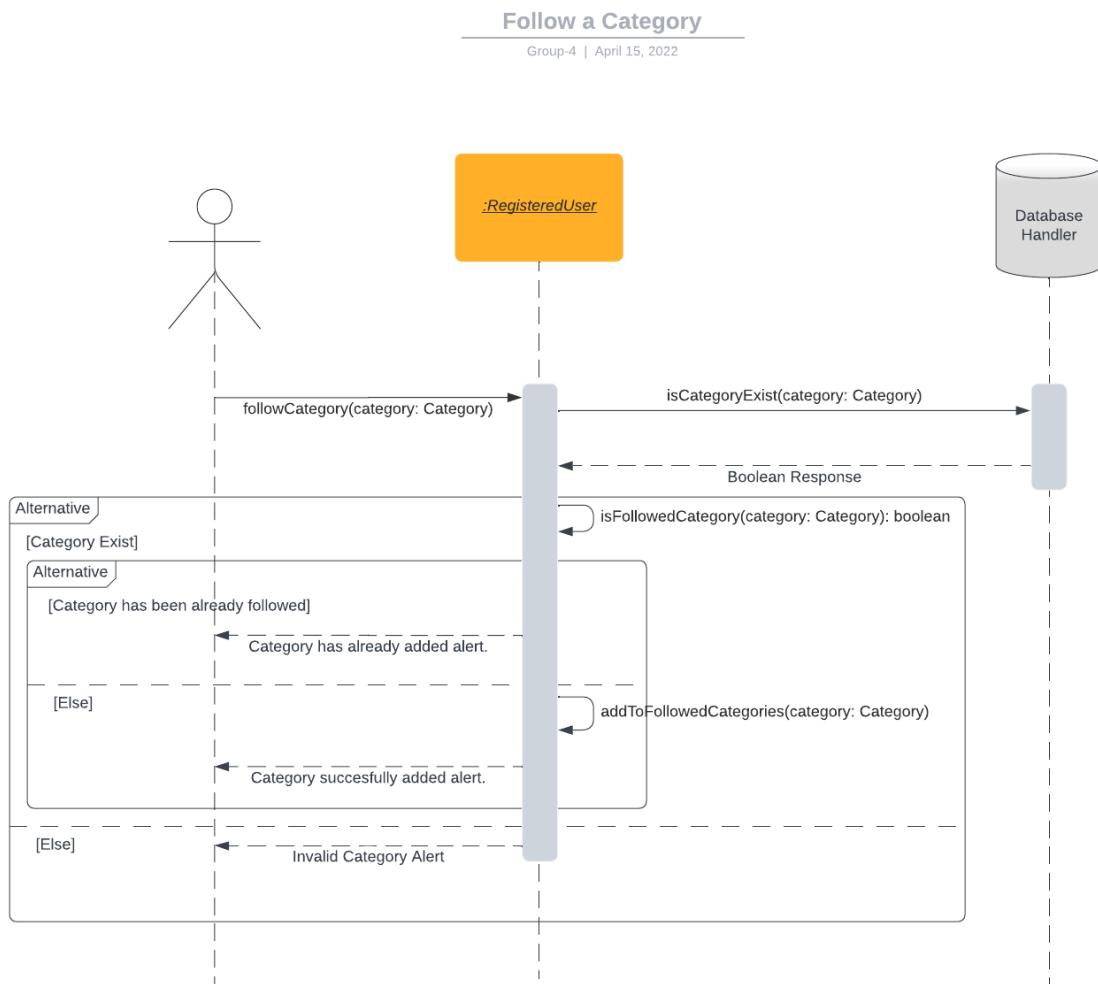
## 2. Upvote a Post



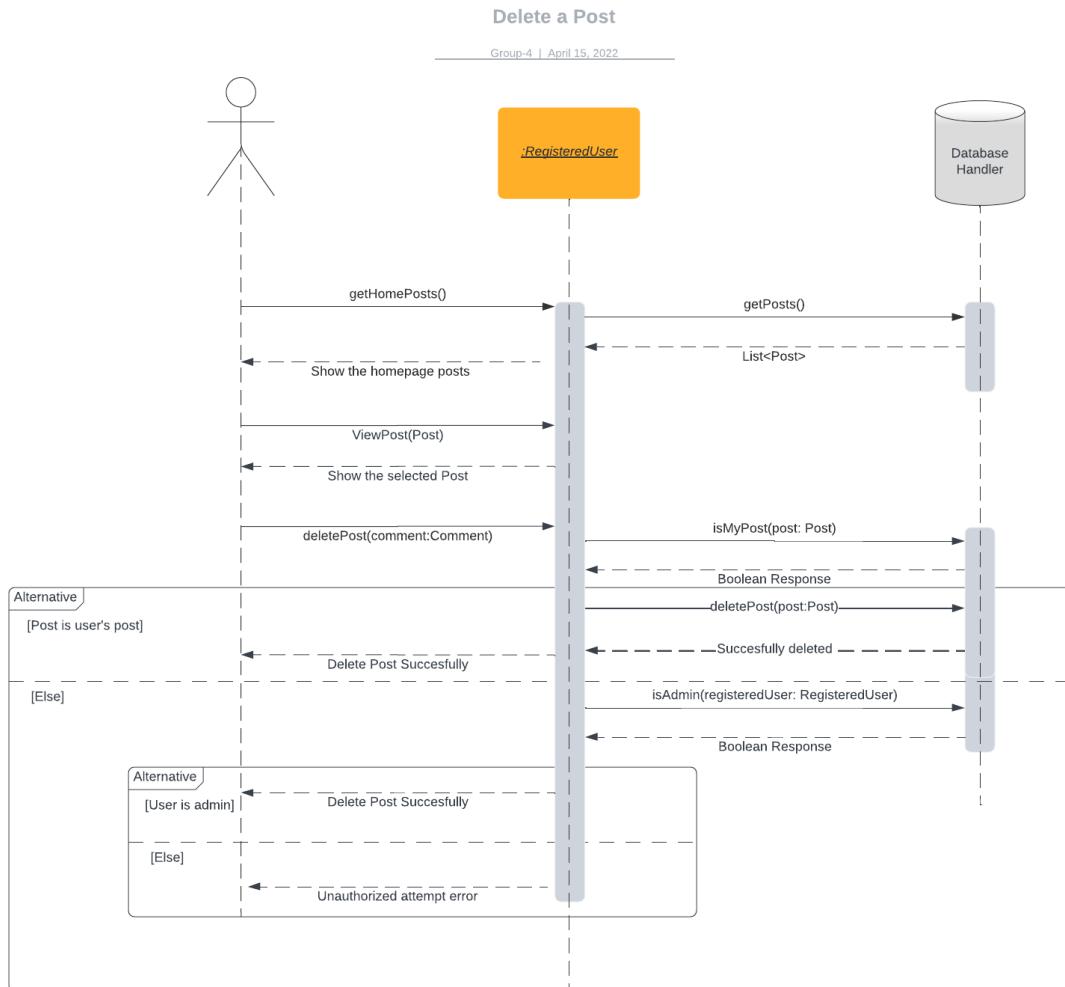
### 3. Comment on a Post



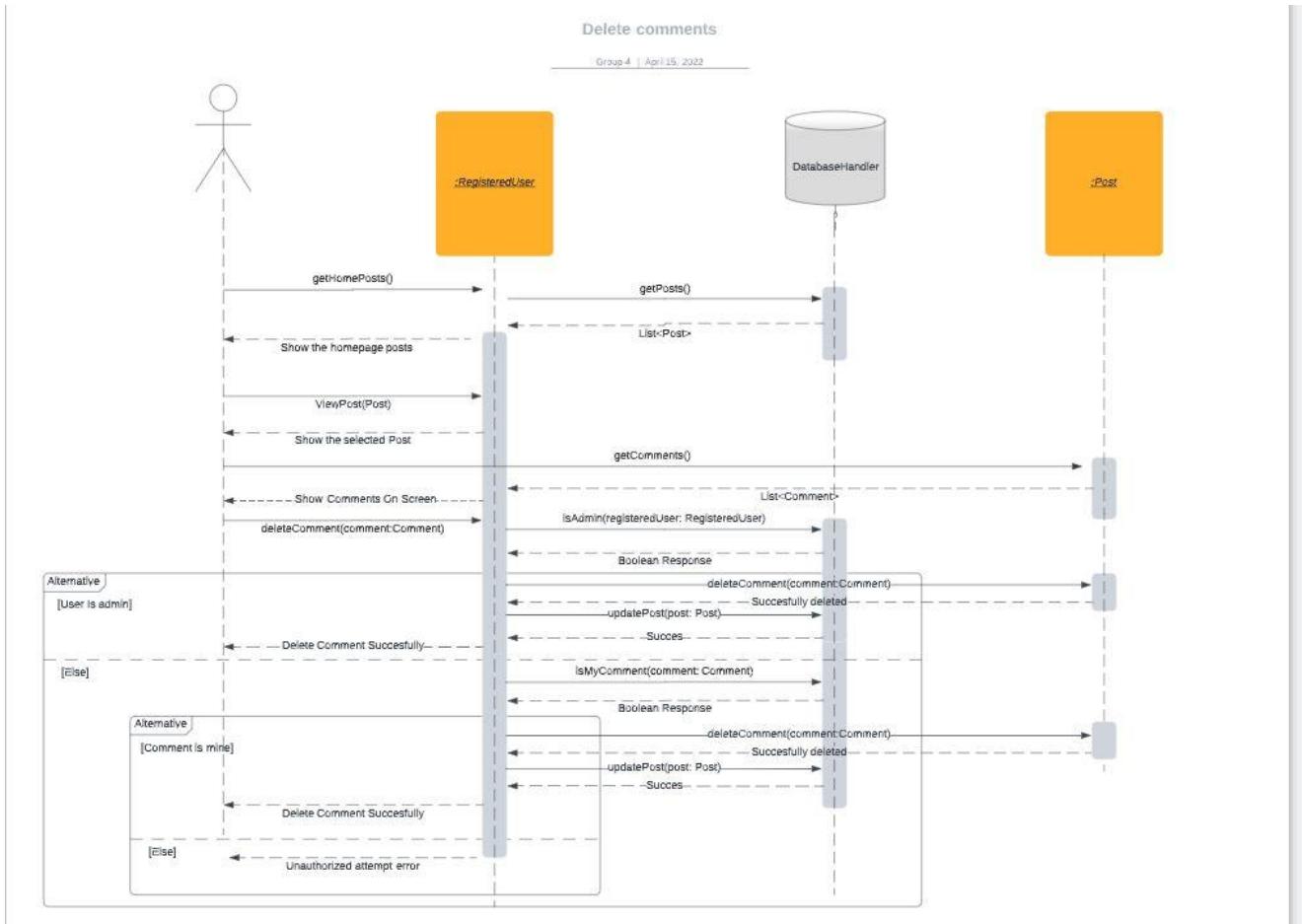
## 4. Follow a Category



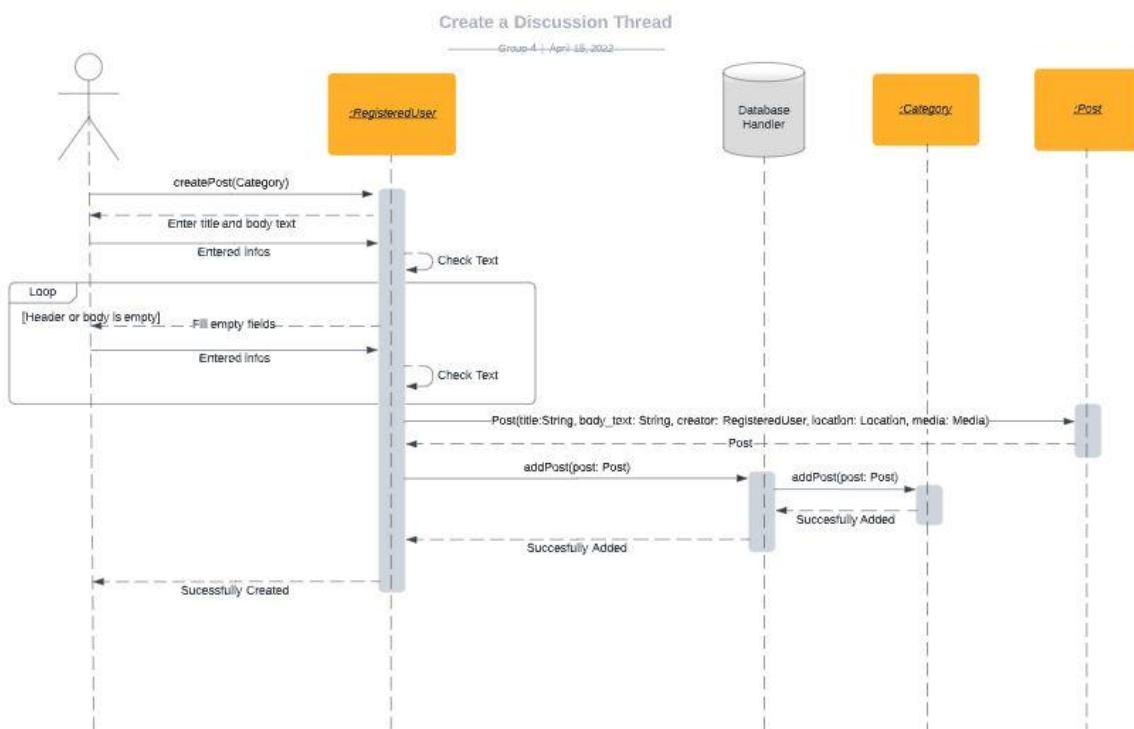
## 5. Delete a Post



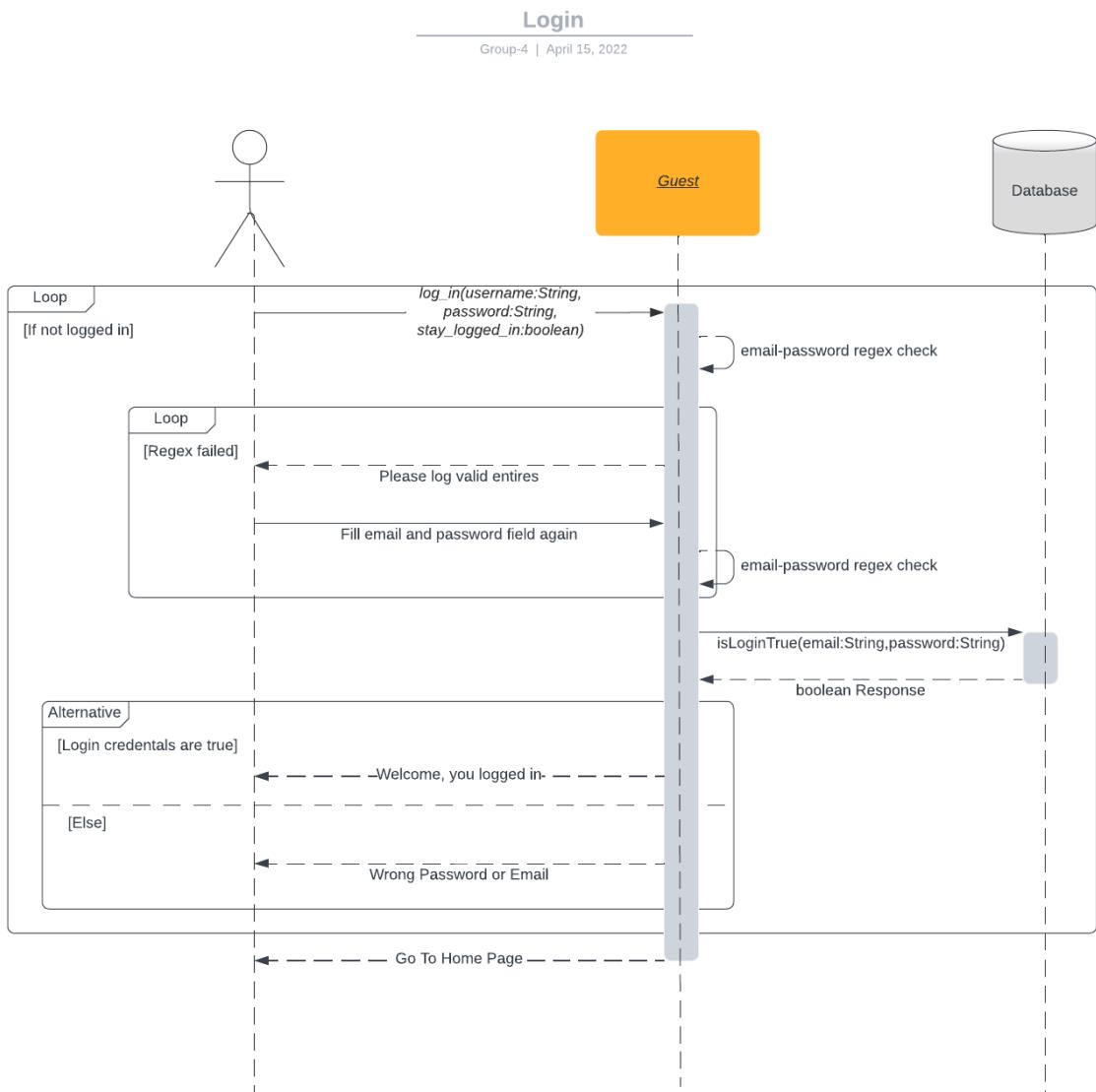
## 6. Delete a Comment



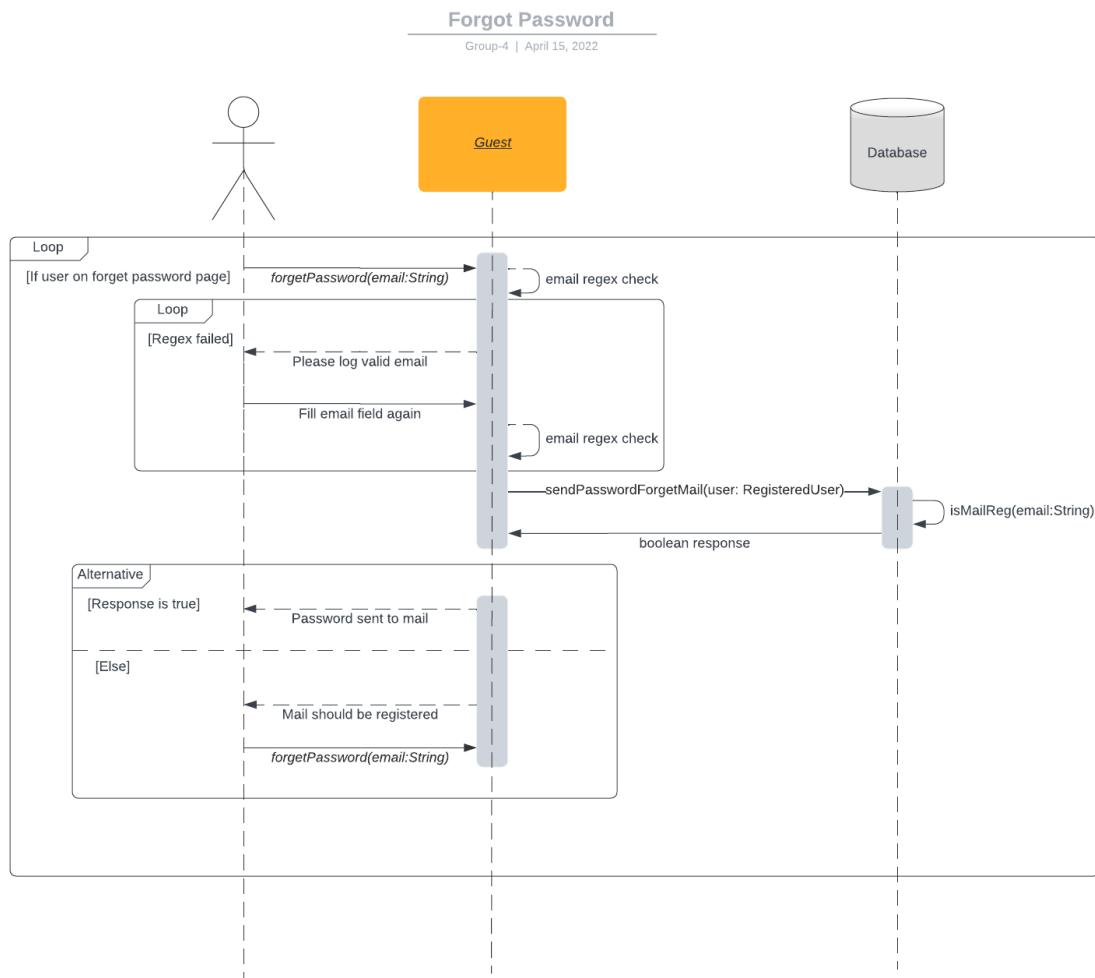
## 7. Create a Post



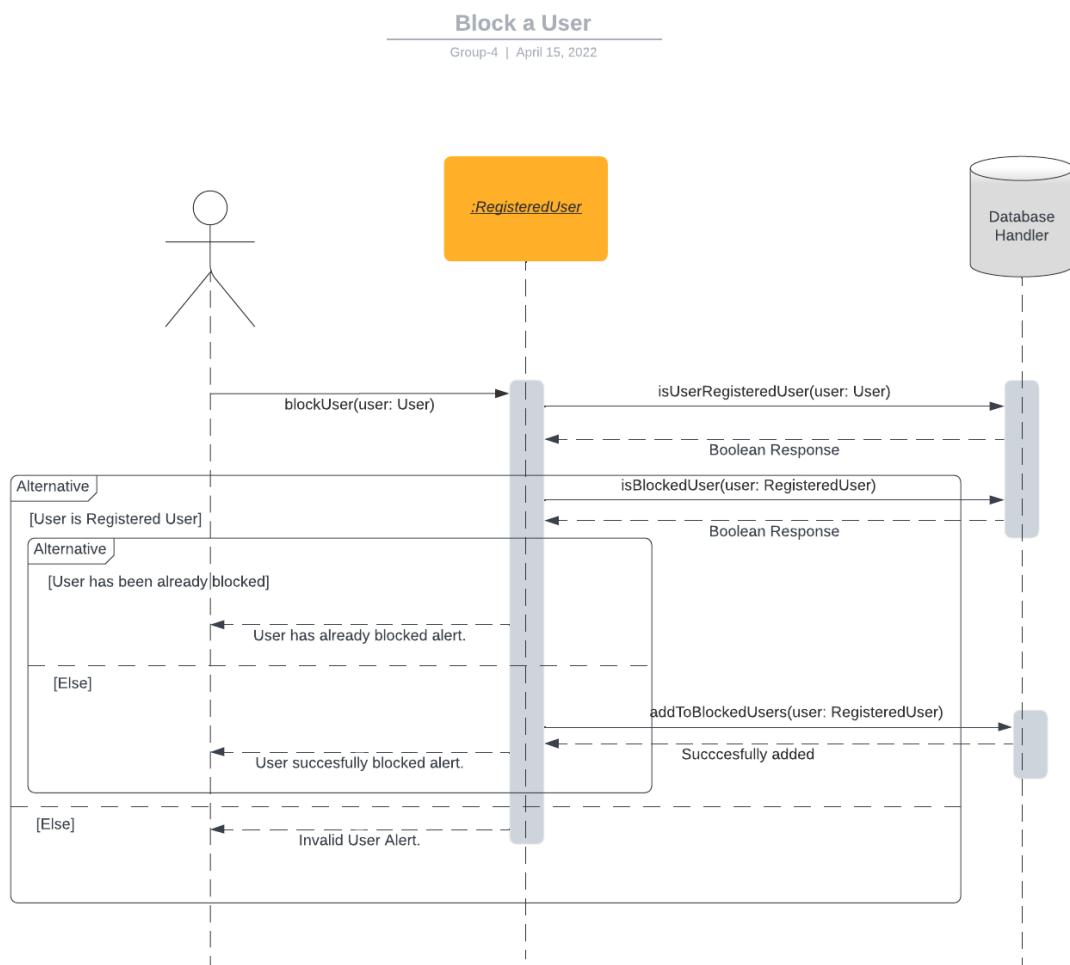
## 8. Login



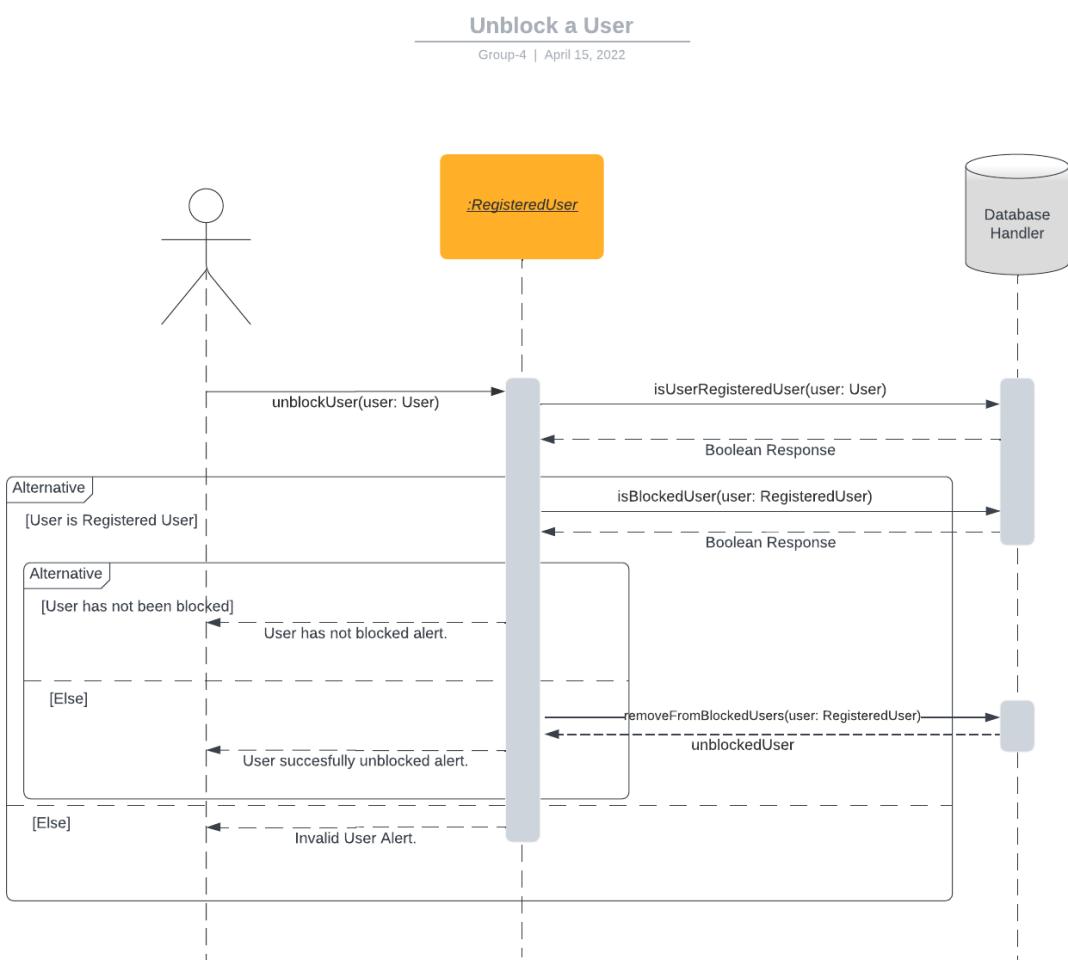
## 9. Forgot Password



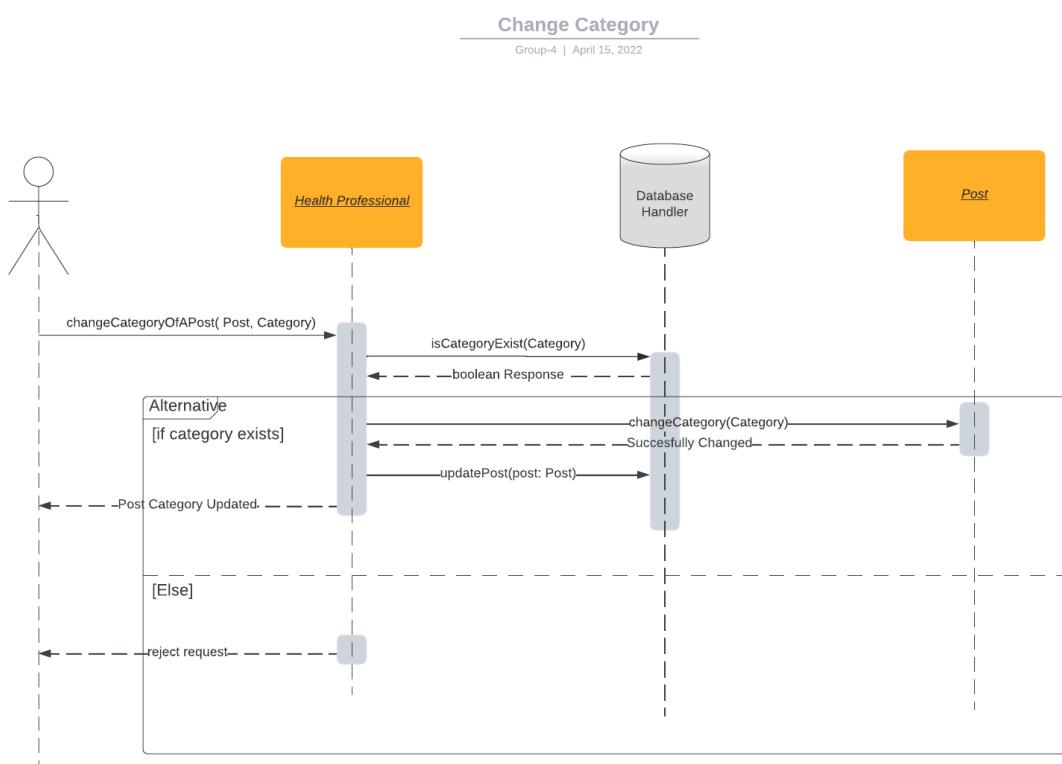
## 10. Block a User



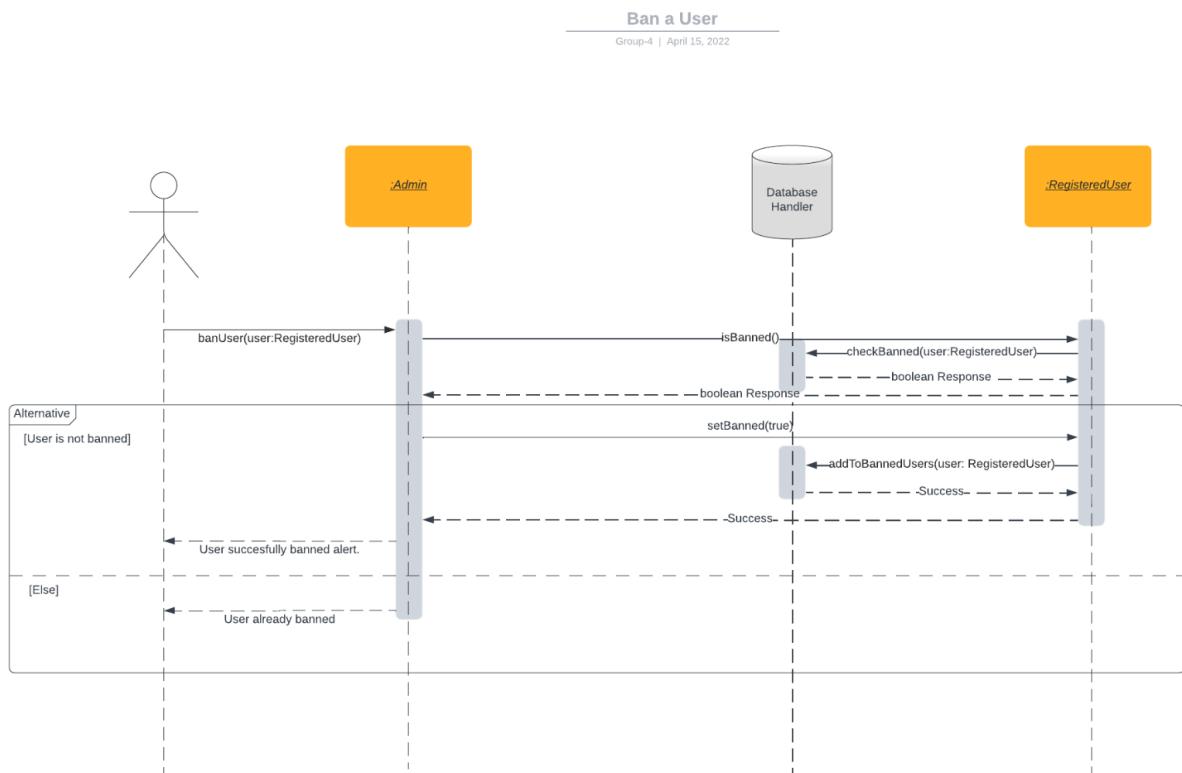
## 11. Unblock a User



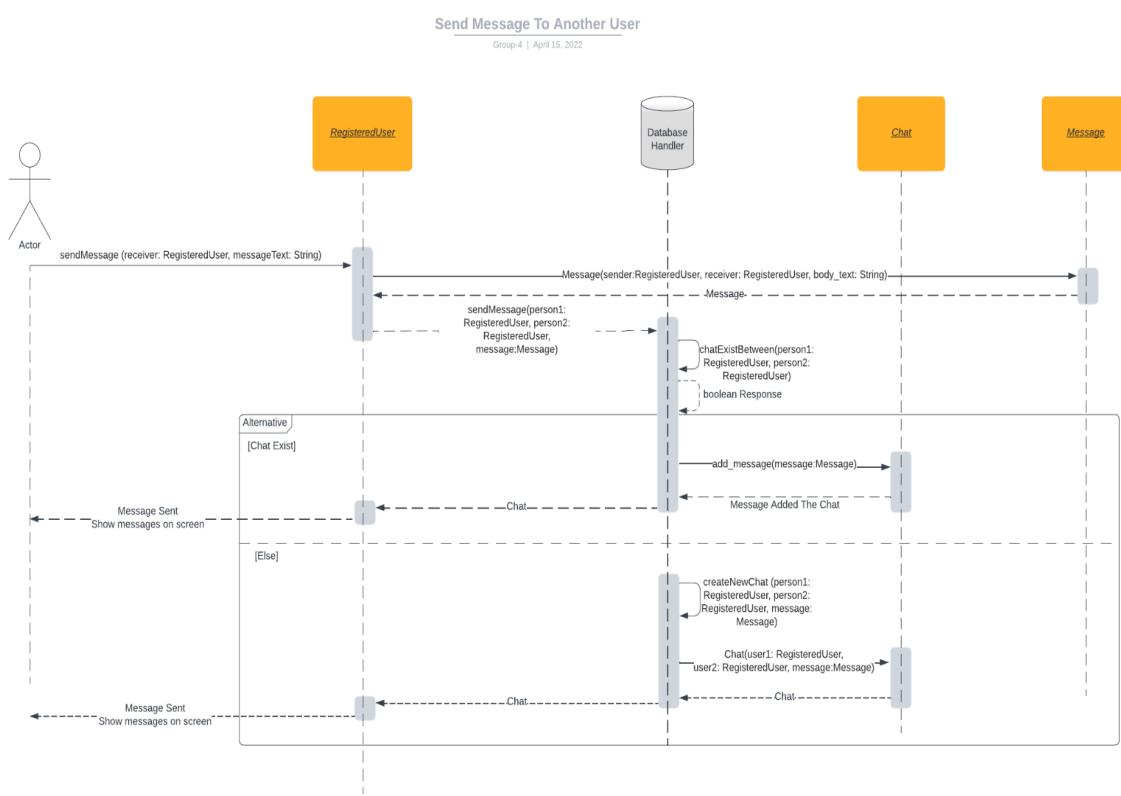
## 12. Change Category of a Post by Health Professional



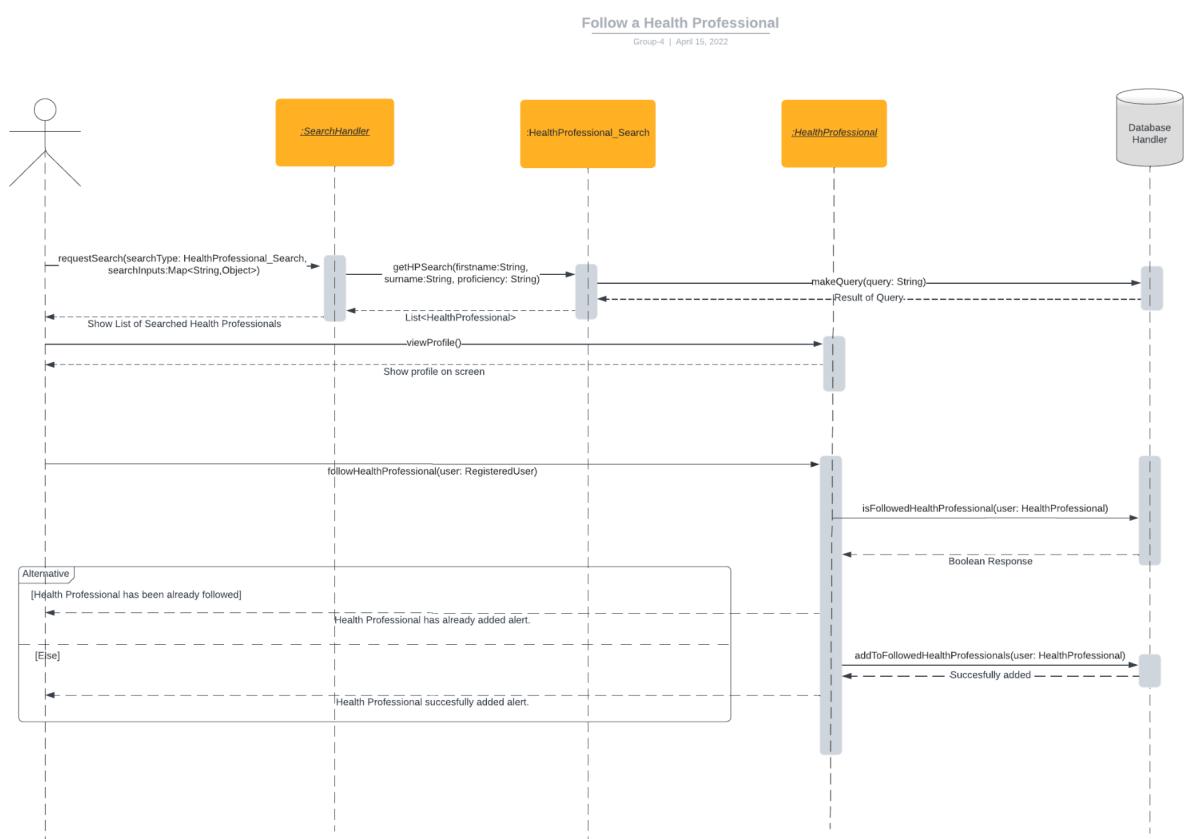
### 13. Ban a User by Admin



## 14. Send Message



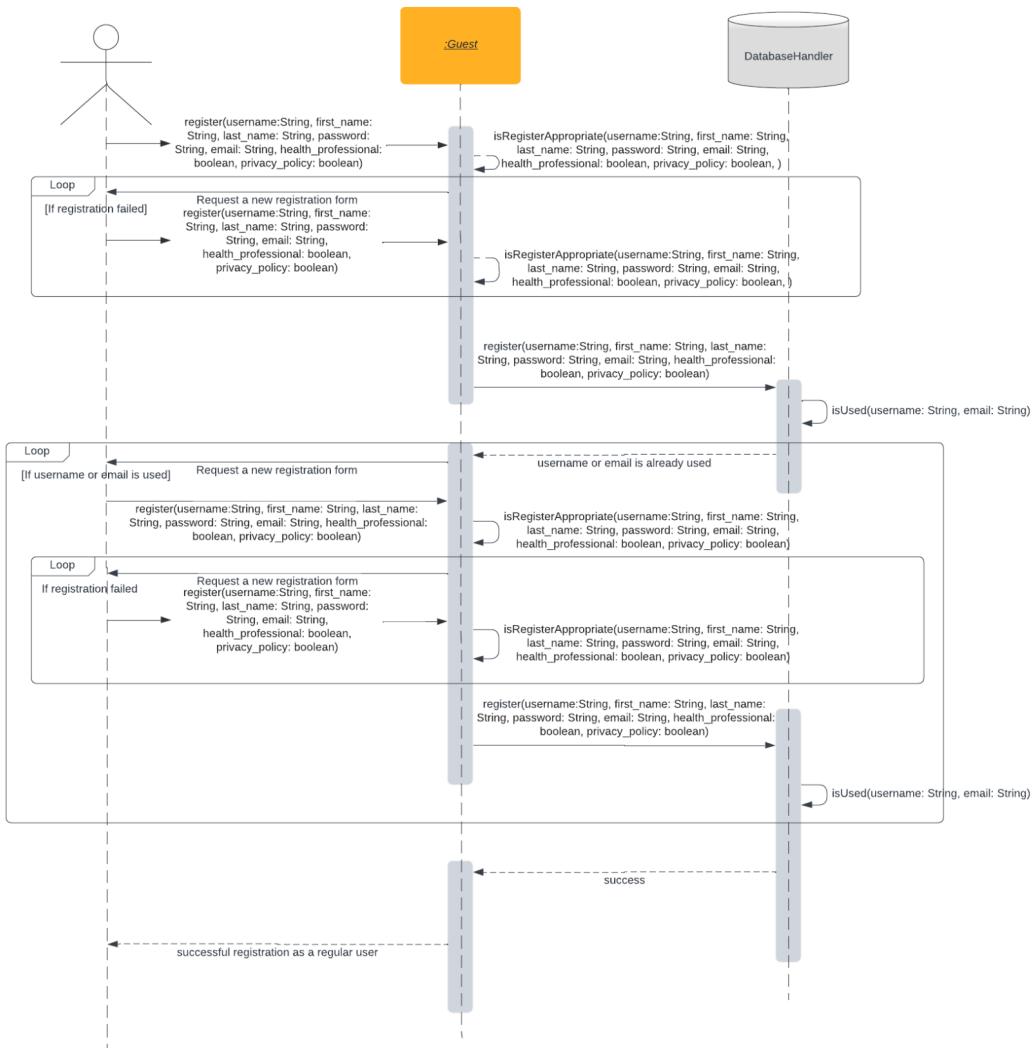
## 15. Follow a Health Professional



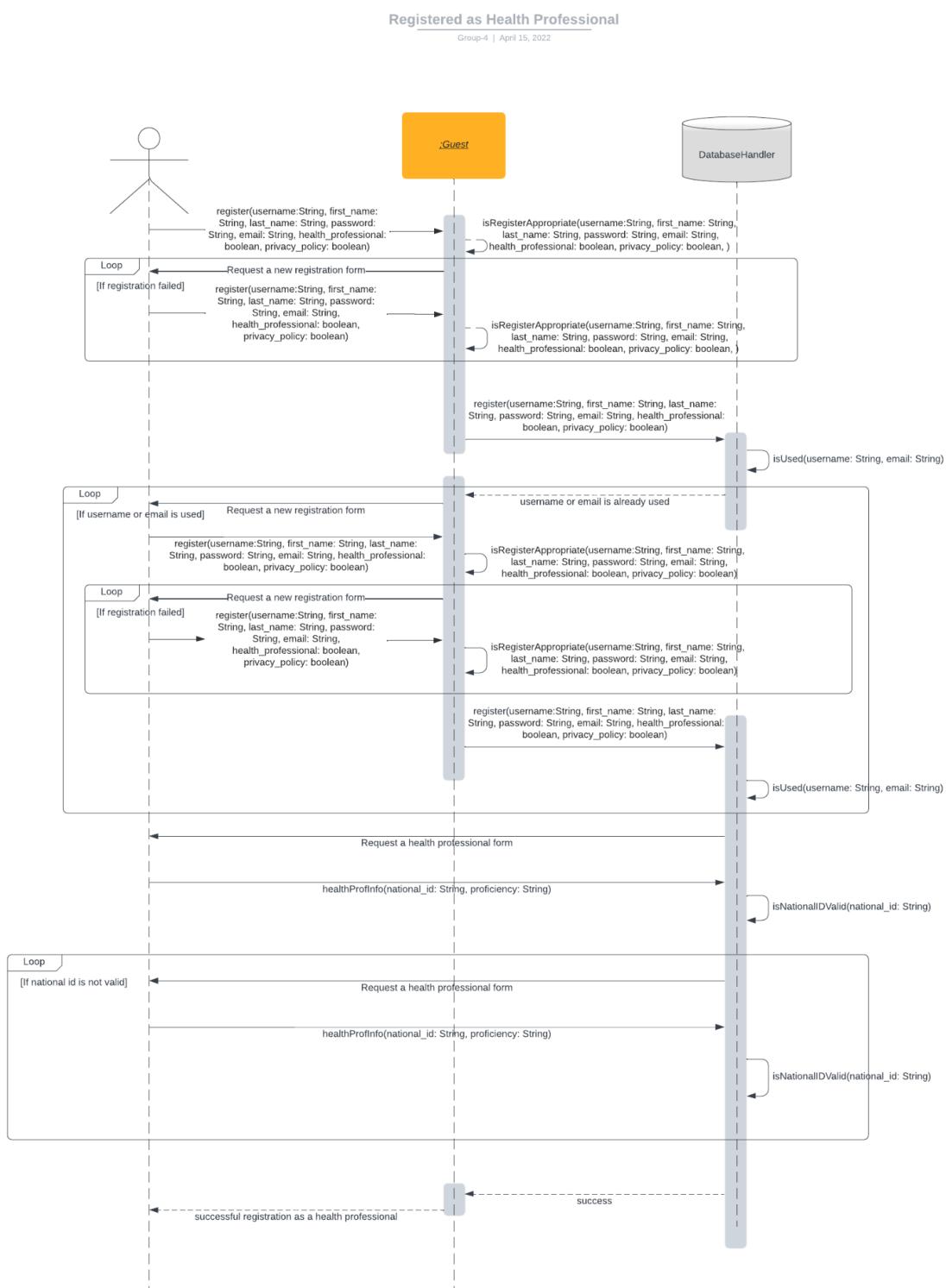
## 16. Register as a Regular User

Register as a Regular User

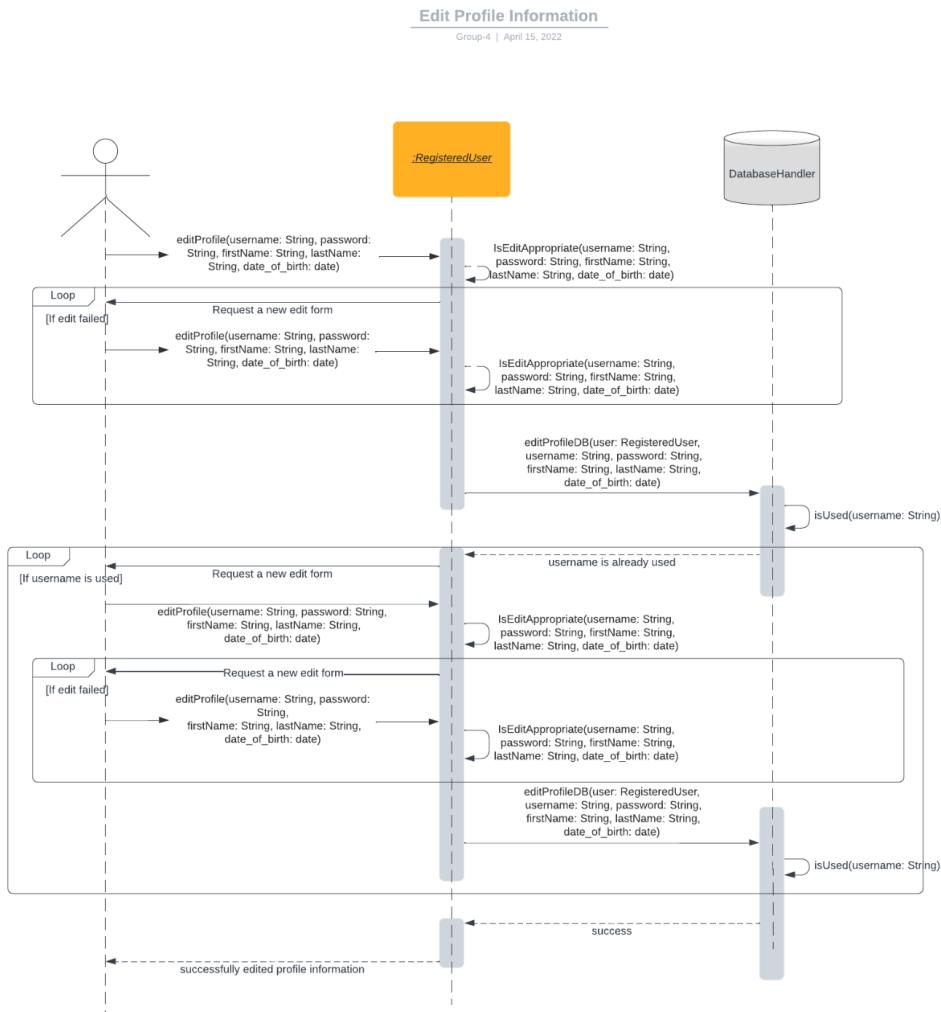
Group-4 | April 15, 2022



## 17. Register as Health Professional



## 18. Edit Profile Information



# Project Plan & RAM

## Project Plan

		Name	Duration	Start	Finish
1		❑Orientation	98 days?	1/19/22, 8:00 AM	6/3/22, 5:00 PM
2	█	First group meeting	0.5 days	3/5/22, 8:00 AM	3/7/22, 1:00 PM
3		Reviewing first assignment	3 days	3/4/22, 8:00 AM	3/8/22, 5:00 PM
4		Researching about markdown	0.5 days?	3/4/22, 8:00 AM	3/4/22, 1:00 PM
5		Researching favourite GitHub repositories	3 days	3/4/22, 8:00 AM	3/8/22, 5:00 PM
6		Researching about version control system	3 days	3/4/22, 8:00 AM	3/8/22, 5:00 PM
7		Creating Teams channel	2 days	3/4/22, 8:00 AM	3/7/22, 5:00 PM
8	█	❑Documentation	5 days?	3/7/22, 8:00 AM	3/11/22, 5:00 PM
9		Creating wiki home page	1.5 days	3/7/22, 8:00 AM	3/8/22, 1:00 PM
10		Creating wiki sidebar	3 days	3/7/22, 8:00 AM	3/9/22, 5:00 PM
11		Creating readme.md file	5 days	3/7/22, 8:00 AM	3/11/22, 5:00 PM
12		Creating personal pages	2 days	3/7/22, 8:00 AM	3/8/22, 5:00 PM
13		Creating and Documenting personal effort wee	2 days	3/7/22, 8:00 AM	3/8/22, 5:00 PM
14	█	Preparing version control system research pag	1 day?	3/7/22, 8:00 AM	3/7/22, 5:00 PM
15	█	Creating Page Templates	1 day	3/7/22, 8:00 AM	3/7/22, 5:00 PM
16	█	Preparing Communication Plan	5 days	3/7/22, 8:00 AM	3/11/22, 5:00 PM
17		Customizing issue labels	4 days	3/7/22, 8:00 AM	3/10/22, 5:00 PM
18		Research on W3C Web Annotation Data Model	1 day?	3/7/22, 8:00 AM	3/7/22, 5:00 PM
19		Documenting favourite Github Repositories pag	5 days	3/7/22, 8:00 AM	3/11/22, 5:00 PM
20	█	❑Requirements	8 days?	3/14/22, 8:00 AM	3/23/22, 5:00 PM
21		Examining related software systems	1 day?	3/14/22, 8:00 AM	3/14/22, 5:00 PM
22		Preparing glossary	1 day?	3/14/22, 8:00 AM	3/14/22, 5:00 PM
23		Requirements analysis	3 days	3/14/22, 8:00 AM	3/16/22, 5:00 PM
24		Preparing user requirements	7 days	3/14/22, 8:00 AM	3/22/22, 5:00 PM
25	█	Preparing system requirements	7 days	3/15/22, 8:00 AM	3/23/22, 5:00 PM
26		Preparing non-functional requirements	7 days	3/14/22, 8:00 AM	3/22/22, 5:00 PM
27		Preparing/altering customer questions	1 day?	3/14/22, 8:00 AM	3/14/22, 5:00 PM
28		Customer Meetings	1 day?	3/14/22, 8:00 AM	3/14/22, 5:00 PM
29		Customer meeting #1	1 day?	3/14/22, 8:00 AM	3/14/22, 5:00 PM
30		Customer meeting #2	1 day?	3/14/22, 8:00 AM	3/14/22, 5:00 PM
31		Customer meeting #3	1 day?	3/14/22, 8:00 AM	3/14/22, 5:00 PM
32		Customer meeting #4	1 day?	3/14/22, 8:00 AM	3/14/22, 5:00 PM
33		Documenting customer meeting notes	1 day?	3/14/22, 8:00 AM	3/14/22, 5:00 PM
34	█	❑Reviews Regarding Customer Meetings	15 days?	3/23/22, 8:00 AM	4/12/22, 5:00 PM
35	█	Review Glossary	2 days	4/11/22, 8:00 AM	4/12/22, 5:00 PM
36		Review User Requirements	1 day?	3/23/22, 8:00 AM	3/23/22, 5:00 PM
37		Review System Requirements	1 day?	3/23/22, 8:00 AM	3/23/22, 5:00 PM
38		Review User Scenario	1 day?	3/23/22, 8:00 AM	3/23/22, 5:00 PM
39		Review Doctor Scenario	1 day?	3/23/22, 8:00 AM	3/23/22, 5:00 PM

39	Review Doctor Scenario	1 day?	3/23/22, 8:00 AM	3/23/22, 5:00 PM
40	Review Admin Scenario	1 day?	3/23/22, 8:00 AM	3/23/22, 5:00 PM
41	Review User Scenario Mock-up	1 day?	3/23/22, 8:00 AM	3/23/22, 5:00 PM
42	Review Doctor Scenario Mock-up	1 day?	3/23/22, 8:00 AM	3/23/22, 5:00 PM
43	Review Admin Scenario Mock-up	1 day?	3/23/22, 8:00 AM	3/23/22, 5:00 PM
44	Review Use Case Diagram	1 day?	3/23/22, 8:00 AM	3/23/22, 5:00 PM
45	Review Class Diagram	1 day?	3/23/22, 8:00 AM	3/23/22, 5:00 PM
46	Review Sequence Diagram	1 day?	3/23/22, 8:00 AM	3/23/22, 5:00 PM
47	<b>Scenarios</b>	5 days	<b>3/22/22, 8:00 AM</b>	<b>3/28/22, 5:00 PM</b>
48	Preparing User Scenario	5 days	3/22/22, 8:00 AM	3/28/22, 5:00 PM
49	Preparing Admin Scenario	5 days	3/22/22, 8:00 AM	3/28/22, 5:00 PM
50	Preparing Doctor Scenario	5 days	3/22/22, 8:00 AM	3/28/22, 5:00 PM
51	<b>Mockups</b>	18 days?	<b>3/23/22, 8:00 AM</b>	<b>4/15/22, 5:00 PM</b>
52	Determining general outlines of the Mockups	18 days?	3/23/22, 8:00 AM	4/15/22, 5:00 PM
53	Preparing mock-up for User Scenario	18 days?	3/23/22, 8:00 AM	4/15/22, 5:00 PM
54	Preparing mock-up for Admin Scenario	18 days?	3/23/22, 8:00 AM	4/15/22, 5:00 PM
55	Preparing mock-up for Doctor Scenario	18 days?	3/23/22, 8:00 AM	4/15/22, 5:00 PM
56	<b>UML Diagrams</b>	18 days?	<b>3/23/22, 8:00 AM</b>	<b>4/15/22, 5:00 PM</b>
57	Use-case,Class and Sequence Diagram Research	18 days	3/23/22, 8:00 AM	4/15/22, 5:00 PM
58	Preparing Use Case Diagram	18 days?	3/23/22, 8:00 AM	4/15/22, 5:00 PM
59	Preparing Class Diagram	18 days	3/23/22, 8:00 AM	4/15/22, 5:00 PM
60	Preparing Sequence Diagrams	18 days	3/23/22, 8:00 AM	4/15/22, 5:00 PM
61	<b>Project Plan</b>	98 days?	<b>1/19/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
62	Planning Until	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
63	Planning After	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
64	Writing Executive Summary	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
65	Listing Deliverables	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
66	Evaluating Deliverables	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
67	Evaluating Tools	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
68	Creating Table of Work Done by Each Member	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
69	Creating Responsibility Assignment Matrix (RAM)	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
70	Creating Project Plan Table	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
71	Merging all	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
72	<b>Review &amp; Revisions</b>	31 days?	<b>3/4/22, 8:00 AM</b>	<b>4/15/22, 5:00 PM</b>
73	Review Mockup	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
74	Review Requirements	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
75	Review Class Diagram	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
76	Review Sequence Diagram	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
77	<b>Essentials of the Project</b>	31 days?	<b>3/4/22, 8:00 AM</b>	<b>4/15/22, 5:00 PM</b>

76	Review Sequence Diagram	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
77	❑ <b>Essentials of the Project</b>	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
78	Research on APIs	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
79	Research on Databases	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
80	Research on Servers	31 days?	3/4/22, 8:00 AM	4/15/22, 5:00 PM
81	❑ <b>Determine a Requirement Tracking System</b>	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
82	Provisional Design of the Project Structure	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
83	Provisional Design of Frontend	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
84	Provisional Design of Backend	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
85	Provisional Design of Database Structure	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
86	❑ <b>API &amp; Prototyping</b>	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
87	API Usage	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
88	Design of API	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
89	Milestone 2	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
90	Arrange Teams	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
91	Revise Requirements, Designs, Plans	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
92	❑ <b>Group Meetings</b>	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
93	All	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
94	Frontend	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
95	Backend	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
96	Android	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
97	Pre Implementation	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
98	❑ <b>Backend</b>	98 days?	1/19/22, 8:00 AM	6/3/22, 5:00 PM
99	Initialize Server	98 days?	1/19/22, 8:00 AM	6/3/22, 5:00 PM
100	❑ <b>Frontend</b>	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
101	Create Initial Design	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
102	❑ <b>Android</b>	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
103	Create Initial Design	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
104	❑ <b>Test Cases</b>	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
105	Implement test cases for login and register	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
106	❑ <b>Login register</b>	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
107	❑ <b>Backend</b>	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
108	Implement User, User Credentials and Guess	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
109	Implement Register System	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
110	Implement Reset Password System	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
111	Implement Login System	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
112	❑ <b>Frontend</b>	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
113	Register Page	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
114	Login Page	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM



		Name	Duration	Start	Finish	
113			66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
114		Login Page	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
115		Reset Password Page	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
116		<b>Android</b>	66 days	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>	
117		Register Page	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
118		Login Page	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
119		Reset Password Page	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
120		<b>Forum Page</b>	66 days	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>	
121			<b>Backend</b>	66 days	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
122		Implementing Forum Classes	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
123		Discussion Threads, Comment, Editting, Upv	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
124		Labeling and Classification	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
125		<b>Frontend</b>	66 days	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>	
126		Main Forum Page	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
127		New Discussion Thread Page	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
128		Comment Design Under a Discussion Thread	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
129		<b>Android</b>	66 days	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>	
130		Main Forum Page	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
131		New Discussion Thread Page	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
132		Comment Design Under a Discussion Thread	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
133		<b>Testing</b>	66 days	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>	
134		Test Creation of Discussion Thread	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
135		Test editing of Discussion Thread	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
136		Test Labeling	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
137		<b>Chat Bot</b>	66 days	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>	
138			<b>Backend</b>	66 days	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
139		Integration of Predetermined Questions to t	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
140		<b>Frontend</b>	66 days	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>	
141		Design Chatbot appearance	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
142		Design Chatbot logo	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
143		Design Chatbot Message Design	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
144		<b>Android</b>	66 days	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>	
145		Design Chatbot appearance	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
146		Design Chatbot logo	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
147		Design Chatbot Message Design	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
148		<b>User Profile</b>	66 days	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>	
149			<b>Backend</b>	66 days	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
150		User Type System	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
151		Follow System	66 days	3/4/22, 8:00 AM	6/3/22, 5:00 PM	
152		<b>Frontend</b>	66 days	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>	



		Name	Duration	Start	Finish
151		Follow System	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
152		<b>Frontend</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
153		Profile Page	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
154		<b>Android</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
155		Profile Page	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
156		<b>Search Engine</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
157		<b>Backend</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
158		Sorting System	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
159		Category Search	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
160		Filter System	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
161		<b>Frontend</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
162		Search Results Page	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
163		Search Bar Design	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
164		<b>Android</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
165		Search Results Page	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
166		Search Bar Design	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
167		<b>Tools</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
168		<b>Backend</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
169		Tools System	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
170		<b>Frontend</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
171		Tools Page	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
172		<b>Android</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
173		Tools Page	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
174		<b>Notification</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
175		<b>Backend</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
176		Notification System	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
177		<b>Frontend</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
178		Notification Page	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
179		<b>Android</b>	66 days?	<b>3/4/22, 8:00 AM</b>	<b>6/3/22, 5:00 PM</b>
180		Notification Page	66 days?	3/4/22, 8:00 AM	6/3/22, 5:00 PM
181					

## RAM

L: Lead(s)	Umut Deniz Şener	Miraç Batuhan Malazgirt	Elif Tokluoğlu	Berat Damalar	Yusuf Bayındır	Yiğit Can Özka	Oğuzhan Tok	Sanberk Serbest	Erdinç Güneydin	Kübra Aksu
C: Contributor										
A: Approval										
R: Reviewer										
N: None										
Orientation										
Researching about version control system	C	C	C	C	L	C	C	C	C	C
Researching favourite GitHub repositories	C	C	C	C	C	C	C	C	C	C
Researching about markdown	C	C	C	C	C	C	C	C	C	C
First group meeting	C	C	C	C	C	C	C	C	C	C
Creating Teams channel	N	N	N	L	N	N	C	L	N	C
Reviewing first assignment	C	C	C	C	C	C	C	C	C	C
Documentation										
Creating wiki home page	N	N	N	C	C	C	N	N	N	N
Creating page templates	N	C	N	N	N	N	N	N	N	N
Creating wiki sidebar	C	C	N	N	C	C	N	N	C	N
Creating readme.md file	N	N	N	C	C	N	N	N	N	N
Creating and preparing personal wiki pages	C	C	C	C	C	N	C	C	C	N
Creating and Documenting personal effort weekly	C	C	C	C	C	C	C	C	C	N
Preparing Communication Plan	N	N	N	L	N	N	L	L	N	N



Customizing issue labels	L	L	N	N	C	N	N	N	N	N
Documenting favourite Github Repositories page	C	C	C	C	C	C	C	C	C	C
Preparing version control system research page	N	N	N	N	L	N	N	N	L	N
Research on W3C Web Annotation Data Model	N	N	L	L	N	N	N	N	N	N
Requirements										
Examining related software systems	C	C	C	C	C	C	C	C	C	C
Requirements analysis	C	C	C	C	C	C	C	C	C	C
Preparing glossary	C	C	N	N	C	N	N	N	C	N
Preparing user requirements	C	L	C	L	C	C	N	C	C	C
Preparing system requirements	C	L	N	C	C	N	C	C	C	C
Preparing non-functional requirements	C	C	N	C	L	C	C	N	C	L
Preparing/altering customer questions	N	C	C	C	C	C	C	C	C	C
Customer Meetings										
Attending Customer meeting # 1	C	C	C	C	C	N	C	C	C	C
Attending Customer meeting # 2	C	C	C	C	C	C	C	C	C	N
Attending Customer meeting # 3	N	C	C	C	C	C	C	C	C	N
Attending Customer meeting # 4	C	C	C	C	C	C	N	C	C	N
Documenting customer meeting notes	N	N	N	L	N	N	N	N	N	N



Scenarios											
Preparing User Scenario	N	N	C	L	L	N	N	R	N	C	
Preparing Admin Scenario	N	L	N	N	N	N	C	L	N	C	
Preparing Doctor Scenario	L	N	N	N	N	L	N	R	L	C	
Mockups											
Determining general outlines of the Mockups	C	C	C	L	L	C	C	N	C	C	
Preparing mock-up for User Scenario	N	N	N	L	L	N	N	N	N	C	
Preparing mock-up for Admin Scenario	N	L	N	N	N	N	C	L	N	C	
Preparing mock-up for Doctor Scenario	L	N	N	N	N	L	N	N	L	C	
Reviews Regarding Customer Meetings											
Review Glossary	R	N	N	N	R	N	R	R	N	N	
Review User Requirements	N	L	N	R	R	R	N	R	R	N	
Review System Requirements	N	L	N	R	R	R	R	R	R	N	
Review User Scenario	N	N	R	L	L	N	N	R	R	R	
Review Doctor Scenario	R	N	N	N	N	R	N	R	N	R	
Review Admin Scenario	N	R	N	N	N	N	R	R	R	R	
Review User Scenario Mock-up	N	N	R	L	L	N	N	N	R	R	
Review Doctor Scenario Mock-up	N	N	N	N	N	R	N	N	N	R	
Review Admin Scenario Mock-up	N	R	N	N	N	N	N	N	R	R	



<b>Review Use Case Diagram</b>	R	N	R	R	N	R	N	N	R	R
<b>Review Class Diagram</b>	N	N	R	R	R	R	R	R	R	R
<b>Review Sequence Diagram</b>	N	L	N	R	R	R	R	R	R	R
<b>UML Diagrams</b>										
<b>Use-case,Class and Sequence Diagram Research</b>	C	C	C	C	C	C	C	C	C	C
<b>Preparing Use Case Diagram</b>	C	C	C	C	C	C	C	C	C	C
<b>Preparing Class Diagram</b>	C	C	C	C	C	C	C	C	C	C
<b>Preparing Sequence Diagrams</b>	C	C	C	C	C	C	C	C	C	C
<b>Project Plan</b>										
<b>Planning Until</b>	C	C	C	C	C	C	C	C	C	C
<b>Planning After</b>	C	C	C	C	C	C	C	C	C	C
<b>Writing Executive Summary</b>	N	N	N	N	L	N	N	N	N	N
<b>Listing Deliverables</b>	C	L	N	N	N	N	N	N	N	N
<b>Evaluating Deliverables</b>	C	L	N	N	N	N	N	N	N	N
<b>Evaluating Tools</b>	N	N	C	L	N	N	N	C	N	C
<b>Creating table of work done by each member</b>	C	C	C	C	C	C	C	C	C	C
<b>Creating Responsibility Assignment Matrix (RAM)</b>	C	L	N	N	N	N	C	N	C	C
<b>Creating Project Plan Table</b>	C	L	N	C	C	N	L	N	C	L
<b>Merging all</b>	C	C	C	C	C	C	C	C	C	C
<b>Milestone 1</b>	C	C	C	C	C	C	C	C	C	C
<b>Essentials of the Project</b>										
<b>Research on APIs</b>	C	C	C	C	C	C	C	C	C	C



<b>Research on Databases</b>	C	C	C	C	C	C	C	C	C	C	C
<b>Research on Servers</b>	C	C	C	C	C	C	C	C	C	C	C
<b>Determine a Requirement Tracking System</b>	C	C	C	C	C	C	C	C	C	C	C
<b>Provisional Design of the Project Structure</b>											
<b>Provisional Design of Frontend</b>	C	L	C	N	N	N	N	N	N	N	N
<b>Provisional Design of Backend</b>	N	N	N	C	L	C	N	N	N	N	N
<b>Provisional Design of Database Structure</b>	N	N	N	N	N	N	C	L	C	N	
<b>API &amp; Prototyping</b>											
<b>API Usage</b>	C	C	C	C	C	C	C	C	C	C	C
<b>Design of API</b>	C	C	C	C	C	C	C	C	C	C	C
<b>Milestone 2</b>	C	C	C	C	C	C	C	C	C	C	C
<b>Arrange Teams</b>											
<b>Revise Requirements, Designs, Plans</b>	C	C	C	C	C	C	C	C	C	C	C
<b>Group Meetings</b>	C	C	C	C	C	C	C	C	C	C	C
<b>Frontend</b>	N	N	N	C	C	C	N	N	N	N	N
<b>Backend</b>	N	N	N	N	N	N	C	C	C	N	
<b>Android</b>	C	C	C	N	N	N	N	N	N	N	N
<b>Pre Implementation</b>											
<b>Backend</b>											
<b>Initiliaze Server</b>	N	N	N	N	N	N	C	C	C	C	
<b>Frontend</b>											



<b>Create Initial Design</b>	N	N	N	C	C	C	N	N	N	N
<b>Android</b>										
<b>Create Initial Design</b>	C	C	C	N	N	N	N	N	N	N
<b>Login and register</b>										
<b>Backend</b>										
<b>Implement User, User Credentials and Guest Classes</b>	N	N	N	N	N	N	C	C	C	C
<b>Implement Register System</b>	N	N	N	N	N	N	C	C	C	C
<b>Implement Reset Password System</b>	N	N	N	N	N	N	C	C	C	C
<b>Implement Login System</b>	N	N	N	N	N	N	C	C	C	C
<b>Frontend</b>										
<b>Register Page</b>	N	N	N	C	C	C	N	N	N	N
<b>Login Page</b>	N	N	N	C	C	C	N	N	N	N
<b>Reset Password Page</b>	N	N	N	C	C	C	N	N	N	N
<b>Android</b>										
<b>Register Page</b>	C	C	C	N	N	N	N	N	N	N
<b>Login Page</b>	C	C	C	N	N	N	N	N	N	N
<b>Reset Password Page</b>	C	C	C	N	N	N	N	N	N	N
<b>Test Cases</b>										
<b>Implement test cases for login and register</b>	C	C	C	C	C	C	C	C	C	C
<b>Forum Page</b>										
<b>Backend</b>										
<b>Implementing Forum Classes</b>	N	N	N	N	N	N	C	C	C	N



<b>Discussion Threads, Comment, Editting, Upvoting, Deleting</b>	N	N	N	N	N	N	C	C	C	N
<b>Labeling and Classification</b>	N	N	N	N	N	N	C	C	C	C
<b>Frontend</b>										
<b>Main Forum Page</b>	N	N	N	C	C	C	N	N	N	C
<b>New Discussion Thread Page</b>	N	N	N	C	C	C	N	N	N	N
<b>Comment Design Under a Dissucion Thread</b>	N	N	N	C	C	C	N	N	N	C
<b>Android</b>										
<b>Main Forum Page</b>	C	C	C	N	N	N	N	N	N	C
<b>New Discussion Thread Page</b>	C	C	C	N	N	N	N	N	N	N
<b>Comment Design Under a Discussion Thread</b>	C	C	C	N	N	N	N	N	N	C
<b>Testing</b>										
<b>Test Creation of Discussion Thread</b>	C	C	C	C	C	C	C	C	C	C
<b>Test editting of Discussion Thread</b>	C	C	C	C	C	C	C	C	C	C
<b>Test Labeling</b>	C	C	C	C	C	C	C	C	C	C
<b>Chat Bot</b>										
<b>Backend</b>										
<b>Integration of Predetermined Questions to the Database System</b>	N	N	N	N	N	N	C	C	C	C
<b>Frontend</b>										
<b>Design Chatbot appearence</b>	N	N	N	C	C	C	N	N	N	C
<b>Design Chattbot logo</b>	N	N	N	C	C	C	N	N	N	C



<b>Design Chatbot Message Design</b>	N	N	N	C	C	C	N	N	N	C
<b>Android</b>										
<b>Design Chatbot appearance</b>	C	C	C	N	N	N	N	N	N	C
<b>Design Chatbot logo</b>	C	C	C	N	N	N	N	N	N	C
<b>Design Chatbot Message Design</b>	C	C	C	N	N	N	N	N	N	C
<b>User Profile</b>										
<b>Backend</b>										
<b>User Type System</b>	N	N	N	N	N	N	C	C	C	N
<b>Follow System</b>	N	N	N	N	N	N	C	C	C	N
<b>Frontend</b>										
<b>Profile Page</b>	N	N	N	C	C	C	N	N	N	N
<b>Android</b>										
<b>Profile Page</b>	C	C	C	N	N	N	N	N	N	N
<b>Search Engine</b>										
<b>Backend</b>										
<b>Sorting System</b>	N	N	N	N	N	N	C	C	C	N
<b>Category Search</b>	N	N	N	N	N	N	C	C	C	N
<b>Filter System</b>	N	N	N	N	N	N	C	C	C	N
<b>Frontend</b>										
<b>Search Results Page</b>	N	N	N	C	C	C	N	N	N	C
<b>Search Bar Design</b>	N	N	N	C	C	C	N	N	N	C
<b>Android</b>										
<b>Search Results Page</b>	C	C	C	N	N	N	N	N	N	C



<b>Search Bar Design</b>	C	C	C	N	N	N	N	N	N	C
<b>Tools</b>										
<b>Backend</b>										
<b>Tools System</b>	N	N	N	N	N	N	C	C	C	N
<b>Frontend</b>										
<b>Tools Page</b>	N	N	N	C	C	C	N	N	N	N
<b>Android</b>										
<b>Tools Page</b>	C	C	C	N	N	N	N	N	N	N
<b>Notification</b>										
<b>Backend</b>										
<b>Notification System</b>	N	N	N	N	N	N	C	C	C	N
<b>Frontend</b>										
<b>Notification Page</b>	N	N	N	C	C	C	N	N	N	N
<b>Android</b>										
<b>Notification Page</b>	C	C	C	N	N	N	N	N	N	N