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# Software Requirements Specifications

for

## HealthHub

**Version 1.0 approved**

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**Capital Ease  
(Group 3)**

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# Table of Contents

<b>Table of Contents</b>	<b>1</b>
<b>1. Introduction</b>	<b>4</b>
1.1 Purpose	4
1.2 Scope	4
1.3 Definitions, acronyms, and abbreviations	4
1.4 References	5
1.5 Overview	5
<b>2. Overall description</b>	<b>5</b>
2.1 Product perspective (eg: Context Diagram)	6
2.2 Product functions	7
2.3 User characteristics	9
2.4 Constraints	9
2.5 Assumptions and dependencies	10
2.6. Apportioning of requirements	11
<b>3. Specific requirements</b>	<b>12</b>
3.1. External interface requirements	12
3.1.1 Sign Up Interface	12
3.1.2 Login Interface	13
3.1.3 Forgot Password Interface	14
3.1.4 Becoming Expert Interfaces	15
3.1.5 Business Account Management Interfaces	16
3.1.6 User Profile Management Interface	17
3.1.7 Trainers - Nutritionist - Business owner Profile Management Interface	18
3.1.8 Deletion Request Interface	20
3.1.9 Post Interface (CRUD)	21
3.1.10 Subscription Interfaces	23
3.1.11 Advertisement Post	24
3.1.12 Share Programs	26
3.1.13 Community Interfaces (CRUD)	27
3.1.13 Event Interfaces	29
3.1.14 Join Community Interfaces	31
3.1.15 Write an Own Special Exercise and Diet Program Interface	33
3.1.16 View Statistics Interface	35
3.1.17 Publish Recommendation and Newsletters Interface	36
Recommendation and Newsletters	36

	2
3.1.18 Public Profile Interface	37
3.1.18 Display Information of Food Interface	38
3.1.19 Export Profile Interface	39
3.1.20 Appointment Interface	40
3.2. Functions	41
3.2.1 Sign up	41
3.2.2 Request to Become Expert	42
3.2.3 Open Expert Account	43
3.2.4 Open Business Account	44
3.2.5 Log In	45
3.2.6 Log Out	46
3.2.7 Forgot Password	46
3.2.8 View Account	48
3.2.9 Update Information	48
3.2.10 Delete Account	49
3.2.11 Request Deletion	50
3.2.12 Approve to Deletion Request	51
3.2.13 Share Post	52
3.2.14 View Post	53
3.2.15 Delete Post	54
3.2.16 Like Post	55
3.2.17 Comment Post	56
3.2.18 Add Subscription	57
3.2.19 Update Subscription	58
3.2.20 Delete Subscription	59
3.2.21 Review Subscription	60
3.2.22 Subscribe	61
3.2.23 Unsubscribe	62
3.2.24 Advertisement Post	62
3.2.25 Share Programs	63
3.2.26 Open Community	65
3.2.27 Delete Community	65
3.2.28 Update Community	66
3.2.29 Create Community Event	67
3.2.30 Delete Community Event	68
3.2.31 Update Community Event	69
3.2.32 Join Community	69

	3
3.2.33 Leave Community	70
3.2.34 Register Community Event	71
3.2.35 Write an Own Special Exercise and Diet Program	72
3.2.36 Get Notification	73
3.2.37 View Statistic	74
3.2.38 Publish Recommendation and Newsletters	74
3.2.39 See Profile	75
3.2.40 Follow User	76
3.2.41 Unfollow User	77
3.2.42 View Progress and Goals	77
3.2.43 Write Progress and Goals from Expert	78
3.2.44 Communicate with Expert	79
3.2.45 Display Information of Food	80
3.2.46 Enter Measured Values	80
3.2.47 Enter Exercise Information	81
3.2.48 Create an Open Appointment	82
3.2.49 Cancel an Appointment	83
3.2.50 View the Profiles	84
3.2.51 Book an Appointment	85
3.2.52 Make a Online Conversation	86
3.2.53 Rate	86
3.2.54 Comment on Appointment	87
3.2.55 Write Expert Opinions	88
3.2.56 Write Expert's Recommendation Program	89
3.2.57 Review Complaints and Suggestions	90
3.2.58 Write Complaints and Suggestions	90
3.3 Performance Requirements	91
3.4 Logical Database Requirements	92
3.5 Design Constraints	92
3.6 Software System Attributes	92
3.6.1 Reliability	92
3.6.2 Availability	93
3.6.3 Security	93
3.6.4 Maintainability	93
3.6.5 Portability	94
3.6.6 Usability	94
<b>4. Appendices</b>	<b>95</b>

	4
4.1 Appendix A: Use Case Diagram	95
4.2 Appendix B: Entity Relationship Diagram and Data Dictionary	96
4.2.1 Data Dictionary	96
4.2.2 ER Diagram	102
4.3 Appendix C: Process Models of the Designed To-be System based on BPMN.	103

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to cater to a diverse audience, including both casual readers and subject experts. Its aim is to offer a more comprehensive understanding of the project's system and justify its implementation. The reader will gain a technical understanding of the interactions between each subsystem

## 1.2 Scope

The aim of the project is to develop a gym and nutrition application that covers to the needs of athletes and regular users providing them with support and guidance on sports-related information, nutrition strategies, and healthy eating. The application will serve as a platform for all kind of user to access sports and nutrition advices, personalized programs, track their statistics, and engage with trainers and nutritionists if necessary. The application will also include features such as subscription management, efficient data handling, and secure user authentication.

## 1.3 Definitions, acronyms, and abbreviations

**DPIT:** Data Protection In Turkey

**PDPA:** Personal Data Protection Authority

**SRS:** Software Requirements Specification

**Agile:** An iterative and flexible approach to software development

**HealthHub:** The name of the application

**DB:** Database

**Trainers:** People who are eligible to share exercises and all other functions that HealthHub will offer

**Nutritionists:** People who are eligible to share diets and all other functions that HealthHub will offer

## 1.4 References

1. Turkey's DPIT by PDPA  
(<https://kvkk.gov.tr/yayinlar/K%C4%B0%C5%9E%C4%B0SEL%20VER%C4%B0LER%C4%B0N%20KORUNMASI%20KANUNU%20VE%20UYGULAMASI.pdf>)
2. Building Secure Software: How to Avoid Security Problems the Right Way. Addison-Wesley Professional
3. Business Process Models:  
(<https://drive.google.com/drive/folders/1iSJQpTuoit6OFaSm8JPsvQ-qnWfFSHTN?usp=sharing>)
4. Entity relationship diagrams:  
(<https://drive.google.com/drive/folders/1iSJQpTuoit6OFaSm8JPsvQ-qnWfFSHTN?usp=sharing>)
5. Mock-up Screens  
(<https://drive.google.com/drive/folders/1QiNURre8JNV8JCE8-54Q4fh9gu-zL03F?usp=sharing>)

## 1.5 Overview

This SRS document provides a comprehensive overview of HealthHub, including its purpose, scope, and key definitions. The subsequent sections will delve into the overall description of the application, specific requirements, and appendices that include stakeholder profiles, project priorities, and operating environment details. It serves as a foundation for the development team to understand and implement the necessary features and functionality of the application.

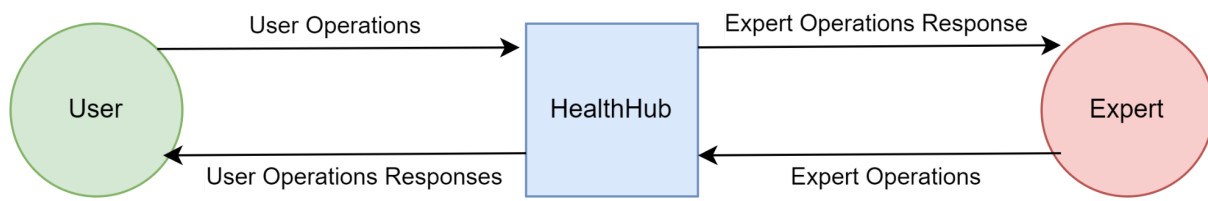
As an overview, the main purpose of HealthHub is to bring both nutritionists and trainers on the same platform with modern technologies as a background unlike the other gym apps in the market.

## 2. Overall description

This section will address various aspects including the interfaces between users, devices, and software, as well as other system interfaces. It will explore how the main functions of the product interact with each other and with the users. Assumptions about the users and the system will also be discussed, along with the limits of the system. Additionally, any criteria that are not within the current scope of the project will be examined.

## 2.1 Product perspective (eg: Context Diagram)

The context of this product is that it is a platform for all-inclusive health and exercise programs. The system of this product is then broken down into its subsystems which are programs, communication, administrative process, and management.



Context Diagram Of The HealthHub

### 2.1.1. System Interfaces

The application runs on web browsers on Windows, Linux, macOS, Android, and iOS.

1. Sign Up Interface
2. Login Interface
3. Forgot Password Interface
4. Becoming Expert Interfaces
5. Business Account Management Interfaces
6. User Profile Management Interface
7. Trainers - Nutritionist - Business owner Profile Management Interface
8. Deletion Request Interface
9. Post Interface (CRUD)
10. Subscription Interfaces
11. Advertisement Post Interface
12. Share Program Interface
13. Community Interfaces (CRUD)
14. Event Interfaces
15. Join Community Interfaces
16. Write an Own Special Exercise and Diet Program Interface
17. View Statistics Interface
18. Publish Recommendation and Newsletters Interface
19. Public Profile Interface
20. Display Information of Food Interface
21. Export Profile Interface
22. Appointment Interface

**2.1.2. User Interfaces**

The application GUI includes menus, buttons, input fields, and containers that are simple to use with a mouse, a keyboard, or a touch screen.

**2.1.3. Hardware Interfaces**

Not available

**2.1.4 Software Interfaces**

To facilitate simple interaction with apps from third parties, the program maintains project data in JSON format.

A web browser like Android, Google Chrome or Mozilla Firefox is a must for utilizing the program.

**2.1.5 Communication Interfaces**

The application comprises a backend that follows a microservice architecture, as well as user interface layers. These layers facilitate communication by exchanging sensitive data through endpoints. To ensure effective communication within the system, the Transmission Control Protocol/Internet Protocol (TCP/IP) will be employed. Primarily, the transportation of sensitive data will rely on the HTTP/HTTPS protocols.

Furthermore, for real-time scenarios like chatting, real-time microservices will be utilized to enable fast communication. This will be achieved by leveraging the Universal Datagram Protocol (UDP).

**2.1.6. Memory Constraints**

Not available

**2.1.7. Operations**

Not available

**2.1.8. Site Adaptation Requirements**

Not available

## 2.2 Product functions

In our product, the actors (user/trainer/nutritionist/receptionist/business owner) can perform these functionalities according to their roles. These functions are explained particularly in the 3.2 section of this document.



1. Sign Up
2. Login
3. Logout
4. Forgot Password
5. Request to Become Expert
6. Open Expert Account
7. Open Business Account
8. View Account
9. Update Information
10. Delete Account
11. Share Post
12. View Post
13. Delete Post
14. Like Post
15. Comment Post
16. Subscribe
17. Unsubscribe
18. Share Program
19. Create Community
20. Update Community
21. Delete Community
22. Create Community Event
23. Update Community Event
24. Delete Community Event
25. Join Community
26. Register Community Event
27. Leave Community Event
28. Write an Own Special Exercise and Diet Program
29. Get Notification
30. View Statistics
31. Publish Recommendations
32. See Profile
33. Follow User
34. Unfollow User
35. View Progress and Goals
36. Change Goals
37. Communicate with Experts
38. Display information of Food
39. Enter Measured Values
40. Enter Exercise Information

41. Create An Open Appointment
42. Cancel An Appointment
43. Book an Appointment
44. Make an Online Conversation
45. Rate the Appointment
46. Comment On Appointment
47. Write Expert Opinions
48. Write Expert Recommendation Program
49. Write Complaints and Suggestions
50. Review Complaints and Suggestions
51. Request Deletion
52. Approve to deletion Request
53. Share Advertisement Post
54. Add Subscription
55. Update Subscription
56. Delete Subscription
57. Review Subscription
58. View Profiles

## 2.3 User characteristics

The following, lists out expectations/assumptions about the users of this product:

### **For Enrolled User:**

- He/She does not need to be an expert in using a computer but should have basic knowledge.
- He/She should know how to access the HealthHub.
- He/She should be aware of the product functions listed above, as they will be happening in real-time and can be used as an official document.

### **For Enrolled Trainer:**

- He/She is legally a trainer that is currently enrolled in the HealthHub.
- He/She does not need to be an expert in using a computer but should have a basic knowledge.
- He/She should know how to access the HealthHub.
- He/She should be aware of the product functions listed above, as they will be happening in real-time and can be used as an official document.

### **For Enrolled Nutritionist:**

- He/She is legally a nutritionist that is currently enrolled in the HealthHub.
- He/She does not need to be an expert in using a computer but should have a basic knowledge.
- He/She should know how to access the HealthHub.

- He/She should be aware of the product functions listed above, as they will be happening in real-time and can be used as an official document.

## 2.4 Constraints

### 2.4.1. Regulatory Policies

Since Turkey has official rules protecting personal information, all personal information should be maintained in accordance with Turkey's DPIT legislation.

The most crucial factor that has to be taken into account is keeping these types of data on servers located outside of Turkey. The data should be anonymous while being stored outside of Turkey's borders.

### 2.4.2. Hardware Limitations

The product has certain hardware restrictions because cloud services will be used to deliver it.

The person in charge of server administration should utilize the services more frequently during busy weeks and less frequently thereafter to save money.

### 2.4.3. Parallel Operation

Since there is a limitation on the reservation system, a student enrolling in a course system should be able to check the remaining quota in order from the first enrolled to the last one.

### 2.4.4. Audit Functions

The system should be able to audit incoming requests for any complaints that come from users because, in the ideal case scenario, there shouldn't be any errors made while making a reservation or using any other service.

### 2.4.5. Control Functions

Since the HealthHub takes input or gets data from integrations, the data should be controlled, as they are defined.

#### 2.4.5.1. Input Validity Control

User input should be able to be verified by the system as it is being received. On the front end, some authenticity checks can be made, including evaluating whether the supplied email is legitimate or not. The backend has the ability to do various authenticity checks, such as verifying that a user's password and email are same.w

#### 2.4.5.2. Integrity Control

The system should be able to check its integrity controls since it will be coupled with third-party apps like banking apps.

#### **2.4.6. Higher-order Language Requirements**

Not available

#### **2.4.7. Criticality of the Application**

Since business domain requirements there are a few criticalities in the system. Those are;

- Sensitive information that is defined by Turkey's DPIT securities.
- Having a satisfied uptime ratio, especially at making reservations and online meeting sessions.

#### **2.4.8. Safety and Security Considerations**

Sensitive information is present in the business area, thus it should be encrypted.

## **2.5 Assumptions and dependencies**

### ***2.5.1 Assumptions:***

- Users consent to the software collecting and analyzing their personal health and athletic data.
- Users will pay for access to the application's premium features and services.
- Trainers and nutritionists will provide their contact information and professional qualifications to the application for verification.
- Users, trainers, and nutritionists will have access to compatible devices and technologies (such as wearables and mobile devices) to enable comprehensive tracking and monitoring.
- The application will obey the data privacy regulations and ensure the security of all personal and sensitive data collected and stored.
- Since the hardware subsystems of the system will be provided by cloud services, it is assumed that the chosen service does not have any critical problems.

### ***2.5.2 Dependencies:***

- Building and sustaining trusting connections with licensed trainers and nutritionists will be essential to the platform's success in attracting their involvement.
- To protect sensitive user data and stop illegal access, a strong security layer will be required. This layer could incorporate security tools like two-factor authentication (Google Authenticator)
- To provide face-to-face meetings with users and professionals, there should be an agreement with local gyms.

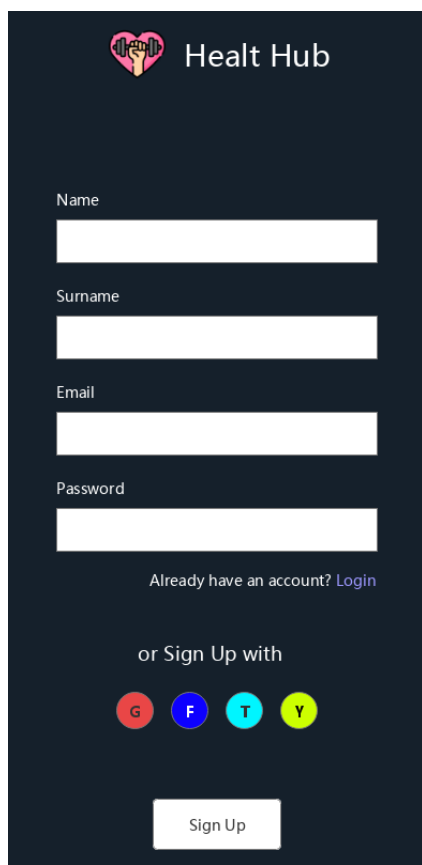
## 2.6. Apportioning of requirements

Requirements that are out of the scope of this project and will be implemented in future versions will be determined by the in-application admins (receptionists) and will supervise their addition to the system after distribution.

## 3. Specific requirements

### 3.1. External interface requirements

#### 3.1.1 Sign Up Interface

The image shows a mobile app sign-up screen for 'Healt Hub'. At the top, there is a logo of a heart with a hand inside, and the text 'Healt Hub'. Below the logo, there are four input fields labeled 'Name', 'Surname', 'Email', and 'Password'. Under the 'Password' field, there is a link that says 'Already have an account? Login'. Below the link, there is a text 'or Sign Up with' followed by four colored circles containing the letters 'G', 'F', 'T', and 'Y'. At the bottom, there is a 'Sign Up' button.

Name of Item	Register to System
Description of Purpose	For creating Account

Source of Input or Destination of Output	Image, Label, Input Fields, Button
Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"> <li>1. This page redirects to the main page of the application.</li> <li>2. This page can be redirected to the login page.</li> <li>3. This page can be redirected to the create with social media accounts.</li> </ol>

### 3.1.2 Login Interface

Healt Hub

Email

Password

[Forgot your Password?](#)

or Login with

G F T Y

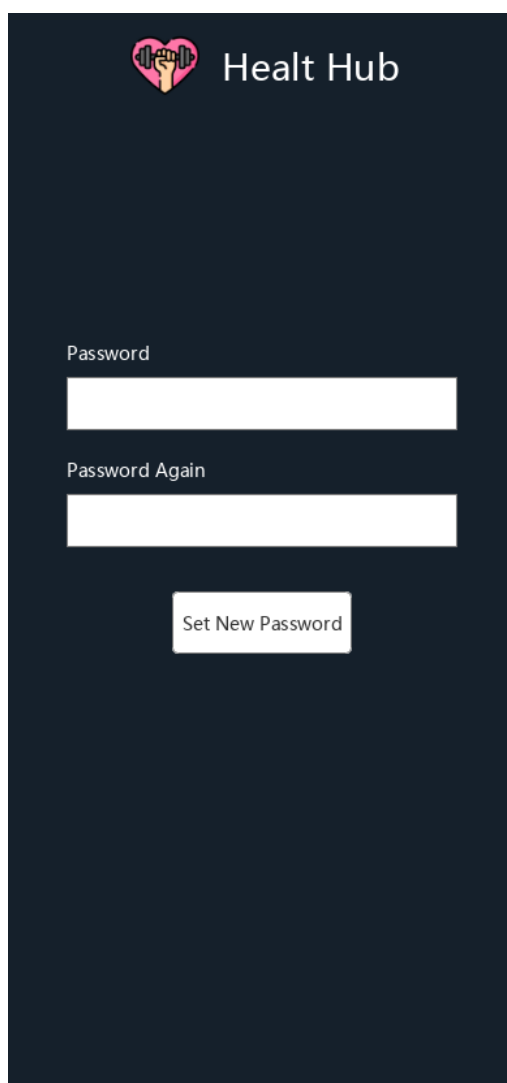
Login

Don't have an account? [Register Now!](#)

Name of Item	Login System
Description of Purpose	For logs into the system.
Source of Input or Destination of Output	Image, Label, Input Fields, Button

Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"> <li>1. By logging into the system, it redirects to the home page.</li> <li>2. It can be logged in with social media accounts and redirects to the home page.</li> </ol>
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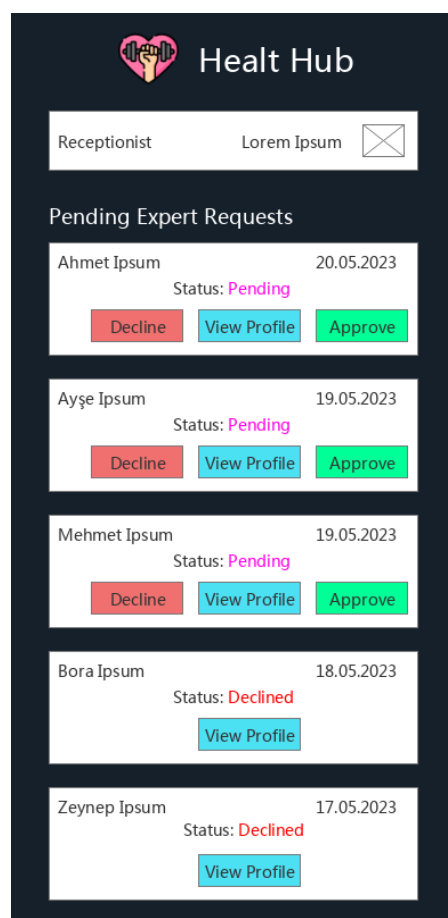
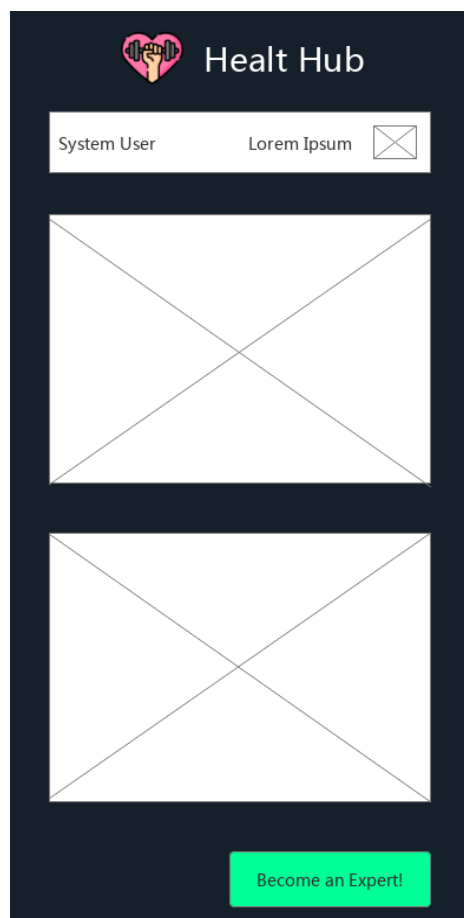
### 3.1.3 Forgot Password Interface



Name of Item	Set Password
Description of Purpose	For creating a new one instead of a forgotten

	password.
Source of Input or Destination of Output	Image, Label, Input Fields, Button
Relationships to Other Inputs / Outputs	With the unique token obtained from the mail, the new password of the account is created and redirects to the login page.

### 3.1.4 Becoming Expert Interfaces





Name of Item	Become an Expert
Description of Purpose	How to create an expert request and how to view these transactions by the receptionist



Source of Input or Destination of Output	Image, Label, Input Fields, Buttons, Tags, Date Fields, Profile Avatar
Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"> <li>1. Requests can be made with the become an expert button on the main page of the application.</li> <li>2. Requests are listed on the receptionist side. In case of refusal to approve, the requester will be notified by email.</li> </ol>

### 3.1.5 Business Account Management Interfaces


**Healt Hub**

Receptionist


Pending Business Account Requests

Çamlık Fitness Center
20.05.2023

Status: Pending

Decline
Fill the Business Info

Capital Ease
15.05.2023

Status: Accepted

Center 242
10.05.2023

Status: Declined


**Healt Hub**

Receptionist


Business Account Information

**Çamlık Fitness Center**
20.05.2023

Status: Pending

Business Name

Owner's Name

Contact Details

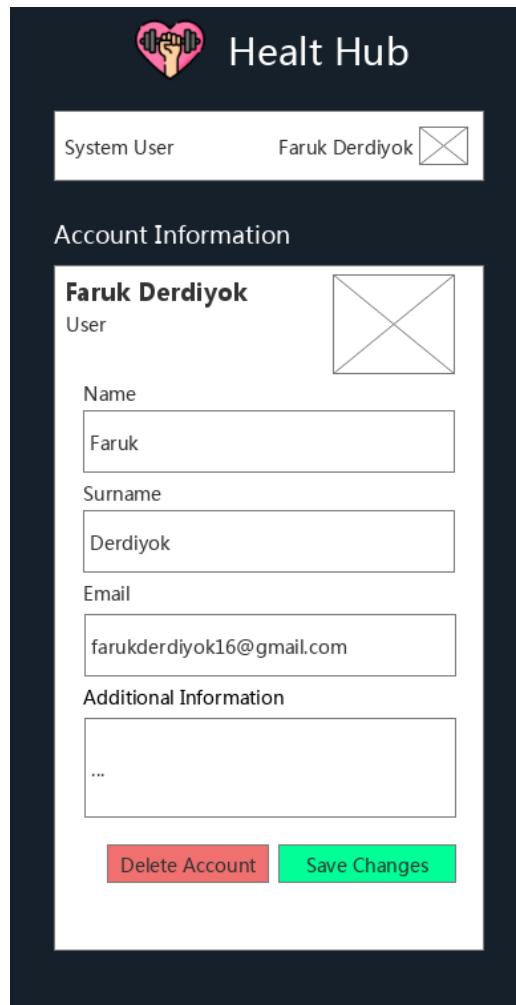
Additional Information

Decline
Approve

Name of Item	Creating a Business Account
Description of Purpose	It shows how the business account is formed

	and what it needs to fill.
Source of Input or Destination of Output	Image, Label, Input Fields, Buttons, Tags, Date Fields, Profile Avatar
Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"> <li>1. User fills in the required fields for account creation.</li> <li>2. Requests are listed on the receptionist side. In case of refusal to approve, the requester will be notified by email.</li> </ol>

### 3.1.6 User Profile Management Interface



The interface is titled "Healt Hub" with a logo featuring a heart and a hand. It shows a user profile for "Faruk Derdiyok" with the role "User". The profile includes fields for Name, Surname, and Email, all of which are filled. There is also a section for "Additional Information" with a text area containing "...". At the bottom, there are two buttons: "Delete Account" (red) and "Save Changes" (green).

**Healt Hub**

System User Faruk Derdiyok

**Account Information**

**Faruk Derdiyok**  
User

Name  
Faruk

Surname  
Derdiyok

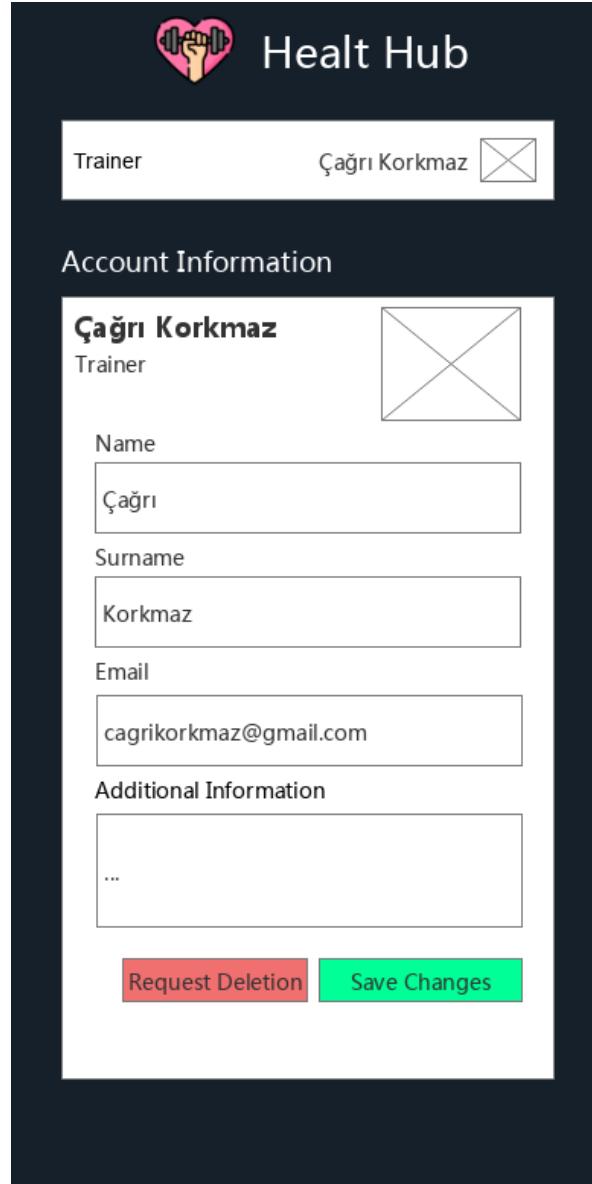
Email  
farukderdiyok16@gmail.com

**Additional Information**  
...

Delete Account Save Changes

Name of Item	Manage User Informations
Description of Purpose	Users edit system information
Source of Input or Destination of Output	Image, Label, Input Fields, Buttons, Profile Avatar
Relationships to Other Inputs / Outputs	Edits system information and redirects to the home page.

### 3.1.7 Trainers - Nutritionist - Business owner Profile Management Interface



The screenshot shows a mobile application interface for 'Healt Hub'. At the top, there is a logo of a heart with a hand holding a dumbbell inside it. Below the logo, the text 'Trainer Çağrı Korkmaz' is displayed next to a placeholder for a profile picture. The main section is titled 'Account Information' and contains the following fields:

- Çağrı Korkmaz** (Trainer) - Next to a placeholder for a profile picture.
- Name**: Çağrı
- Surname**: Korkmaz
- Email**: cagrikorkmaz@gmail.com
- Additional Information**: A text area containing '...'.

At the bottom of the form, there are two buttons: 'Request Deletion' (red) and 'Save Changes' (green).

Name of Item	Personals Managing Informations
Description of Purpose	Personals edit system information
Source of Input or Destination of Output	Image, Label, Input Fields, Buttons, Profile Avatar

Relationships to Other Inputs / Outputs	Since the staff are for various objects (student or business), the requests for change or account deletion are processed after the receptionist's approval. It redirects to the home page and then the staff notifies it by mail.
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### 3.1.8 Deletion Request Interface

**Healt Hub**

Receptionist
Lorem Ipsum

### Pending Delete Account Requests

Çağrı Korkmaz  
Business Owner

20.05.2023  
Status: **Pending**

Decline Deletion
Approve Deletion

Murat Çelik  
Trainers

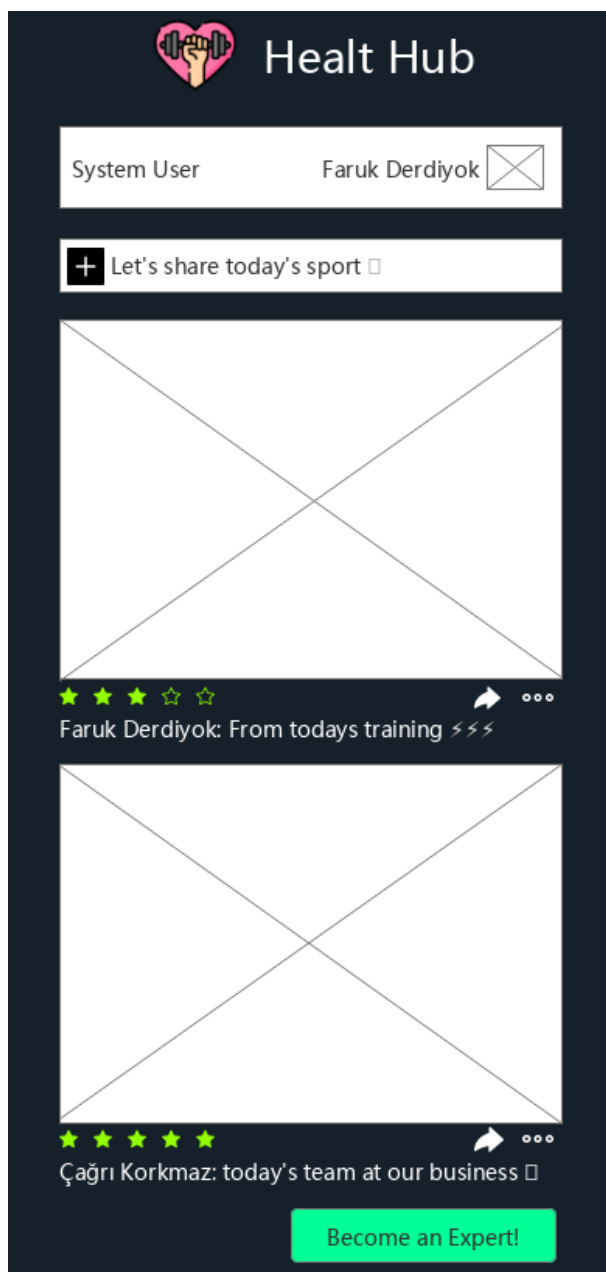
15.05.2023  
Status: **Account Deleted**

Muhammed Fidan  
Nutritionist

10.05.2023  
Status: **Rejected**

Name of Item	Delete Requests
Description of Purpose	Delete Requests listing.
Source of Input or Destination of Output	Image, Label, Buttons, Profile Avatar
Relationships to Other Inputs / Outputs	Receptionist displays account deletions. The account holder is notified by email.

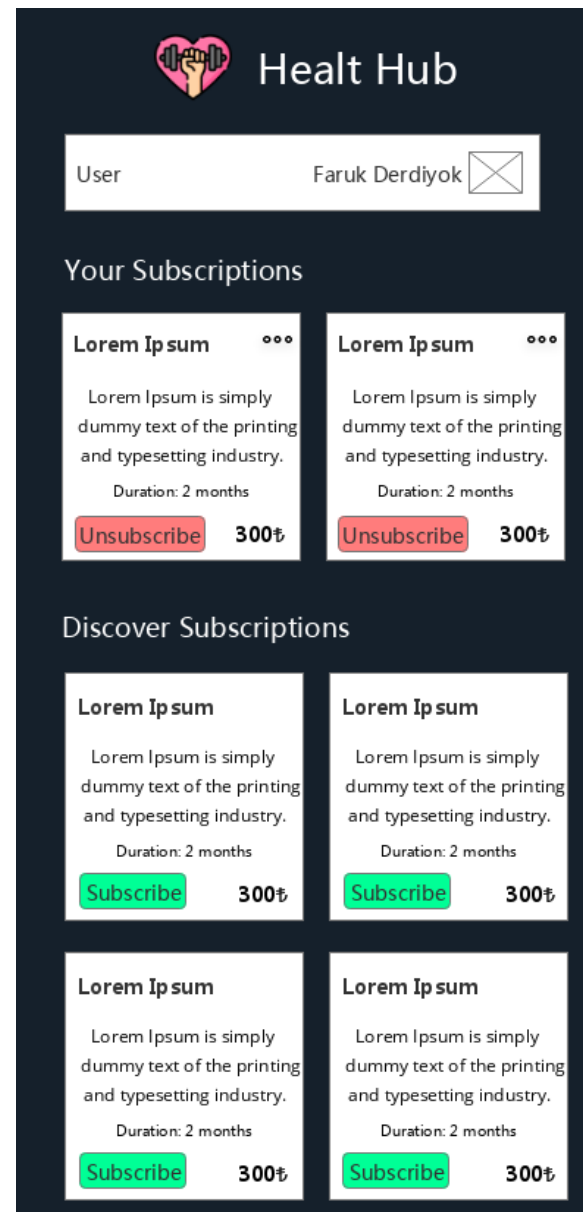
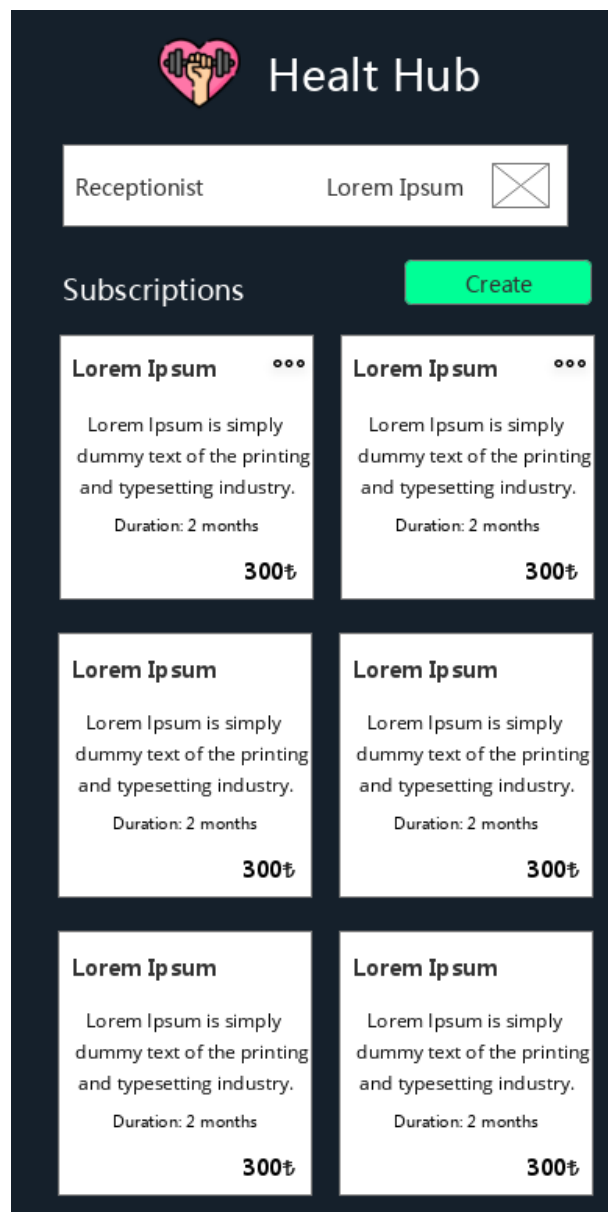
## 3.1.9 Post Interface (CRUD)



Name of Item	Main Page
Description of Purpose	The home stream is displayed.
Source of Input or Destination of Output	Image, Label, Input Fields, Buttons, Icons, Rating Module, Profile Avatar

Relationships to Other Inputs / Outputs	Users view the shares of the experts they follow, subscribe to or train with within the algorithm.
---	--

### 3.1.10 Subscription Interfaces



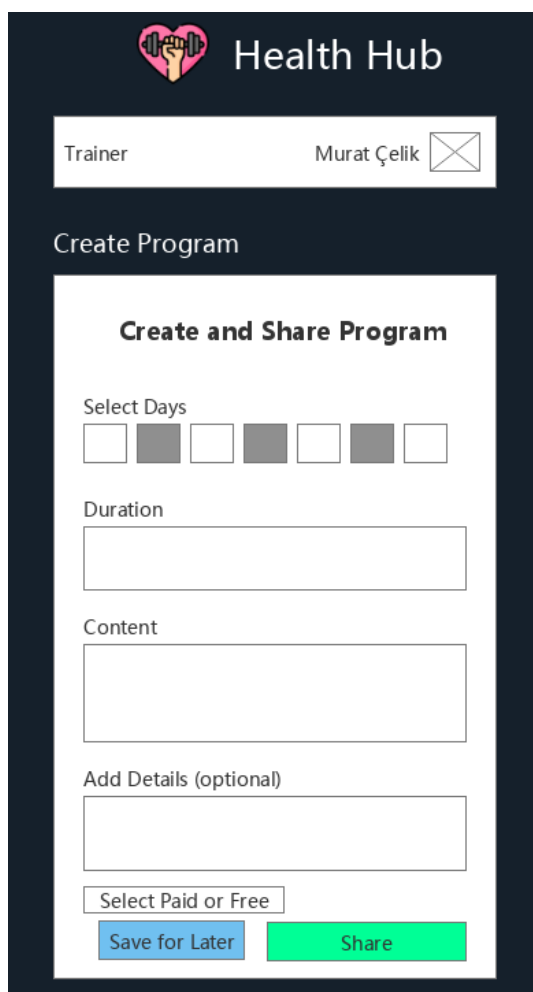


Name of Item	Subscriptions
Description of Purpose	Explore or view subscriptions.
Source of Input or Destination of Output	Image, Label, Input Fields, Buttons, Icons, Price Module, Profile Avatar
Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"><li>1. Users can access subscriptions via the main menu.</li><li>2. Users can manage their subscriptions.</li><li>3. Users discover new subscriptions.</li></ol>

Name of Item	Create Advertisement
Description of Purpose	Advertising posts can be created.
Source of Input or Destination of Output	Input Fields, Buttons, Icons, Dropdown Module, Profile Avatar

Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"> <li>1. Business account holders can access their accounts via the menu.</li> <li>2. Creates customized ads through their accounts.</li> </ol>
---	--

### 3.1.12 Share Programs




The screenshot shows a mobile application interface for 'Health Hub'. At the top, there is a logo of a heart with a hand holding a dumbbell, followed by the text 'Health Hub'. Below this, a header bar displays 'Trainer' and 'Murat Çelik' with an email icon. The main section is titled 'Create Program' and contains a form titled 'Create and Share Program'. The form includes the following fields and options:

- Select Days:** A row of seven checkboxes, with the second and sixth checkboxes selected (shaded grey).
- Duration:** A text input field.
- Content:** A larger text input field.
- Add Details (optional):** A text input field.
- Select Paid or Free:** A dropdown menu.
- Buttons:** At the bottom, there are two buttons: 'Save for Later' (blue) and 'Share' (green).


Name of Item	Programs
Description of Purpose	Create and Share Program

Source of Input or Destination of Output	Input Fields, Buttons, Icons, SelectDay Module, Profile Avatar
Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"> <li>1. Experts set diet menus or fitness programs.</li> <li>2. Shares these programs with its members</li> </ol>

### 3.1.13 Community Interfaces (CRUD)



# Health Hub

Trainer
Murat Çelik


## Your Communities

**Lorem Ipsum**
...

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Enrolled: 56 people >

**Lorem Ipsum**
...

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Enrolled: 78 people >

## Create New Community

Community Name
Description
Tags

Name of Item	Community
Description of Purpose	Community manage operations are done
Source of Input or Destination of Output	Labels, Input Fields, Buttons, Icons, SelectDay Module, Profile Avatar, Card Module
Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"><li>1. It can be redirected to other community pages via Card Module.</li><li>2. A new community can be created by filling in the required fields. He can share this with his friends.</li></ol>


## 3.1.13 Event Interfaces



# Health Hub

Trainer

Murat Çelik



## Lorem Ipsum Community

Upcoming Events

### Event 1

...

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Enrolled: 56 people

>

### Event 2

...

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Enrolled: 78 people

>

## Create New Event

Event Name

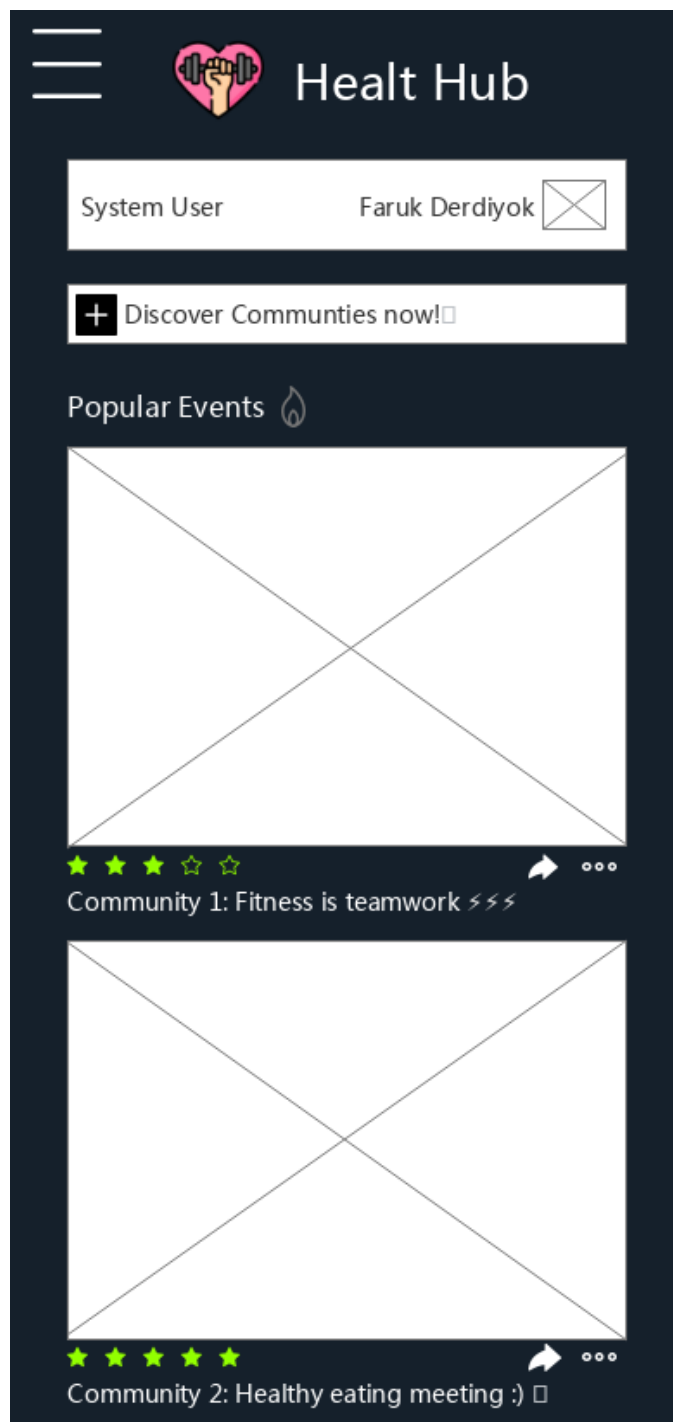
Event Description

Event Date

DD/MM/YYYY

Name of Item	Event
Description of Purpose	Event manage operations are done
Source of Input or Destination of Output	Labels, Input Fields, Buttons, Icons, SelectDay Module, Profile Avatar, Card Module
Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"><li>1. It can be redirected to other community pages via Card Module.</li><li>2. A new event can be created by filling in the required fields. He can share this with his friends.</li></ol>


## 3.1.14 Join Community Interfaces






Name of Item	Community Discover
Description of Purpose	The community page like the home page is filtered.
Source of Input or Destination of Output	Image, Label, Input Fields, Buttons, Icons, Rating Module, Profile Avatar
Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"><li>1. It can be accessed via the main menu.</li><li>2. The activity and recent posts in the participating community are listed.</li></ol>

## 3.1.15 Write an Own Special Exercise and Diet Program Interface

 **Health Hub**

User Faruk Derdiyok 

Exercise Diet Plan

Create Own Program

**Create Program**

Select Days

☐ ☒ ☐ ☒ ☐ ☒ ☐

Duration

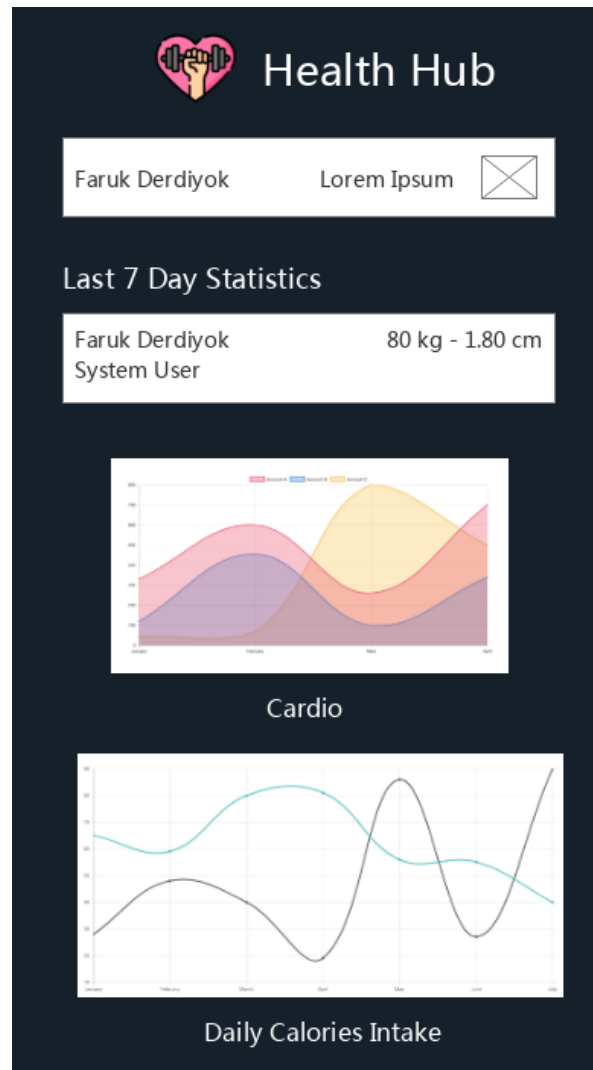
Content

Add Details (optional)

Save Plan

Name of Item	Create Own Program
Description of Purpose	Users can create their own programs.
Source of Input or Destination of Output	Input Fields, Buttons, Icons, SelectDay Module, Profile Avatar
Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"><li>1. Users set diet menus or fitness programs.</li><li>2. Share these programs with its friends.</li></ol>

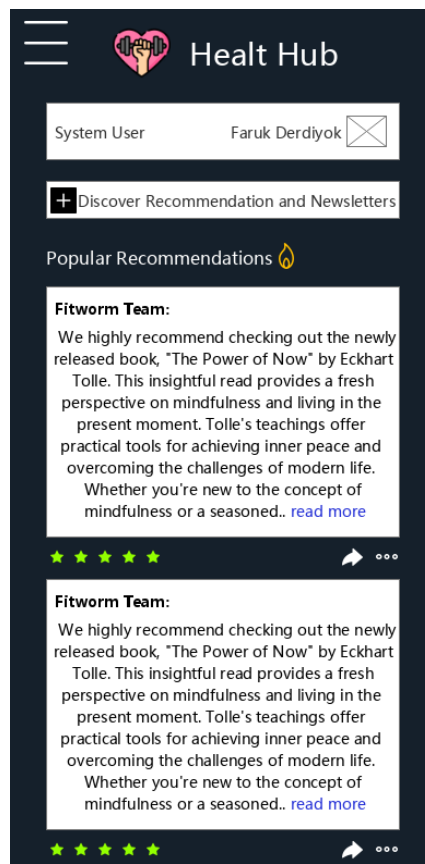
### 3.1.16 View Statistics Interface



Name of Item	View Statistics
Description of Purpose	Charts are created by processing statistics.
Source of Input or Destination of Output	Label, Chart Modules, Profile Avatar

Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"> <li>1. It can be accessed via the main menu as a redirect.</li> <li>2. The user transfers his personal information to the system with external devices. This information is processed and shared with the experts.</li> </ol>
---	--

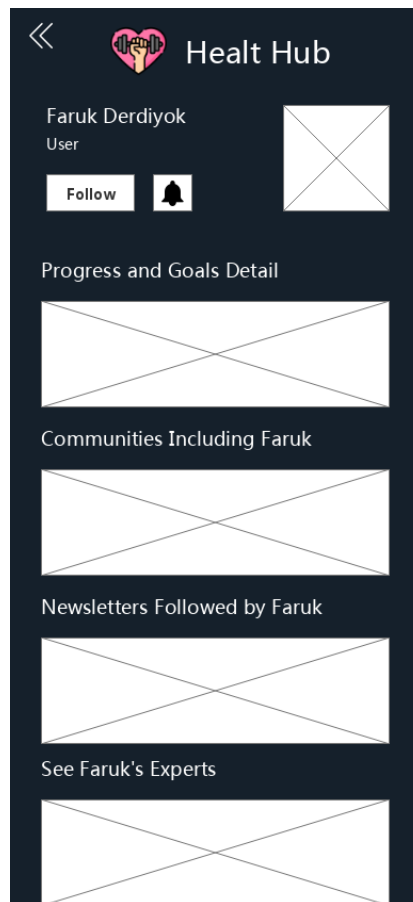
### 3.1.17 Publish Recommendation and Newsletters Interface



Name of Item	Recommendation and Newsletters
Description of Purpose	User displays the Recommendation and

	Newsletters he follows.
Source of Input or Destination of Output	Image, Label, Input Fields, Buttons, Icons, Rating Module, Profile Avatar
Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"> <li>1. It can be accessed via the main menu as a redirect.</li> <li>2. The user accesses the mailings in the newsletter he is included in as a list</li> </ol>

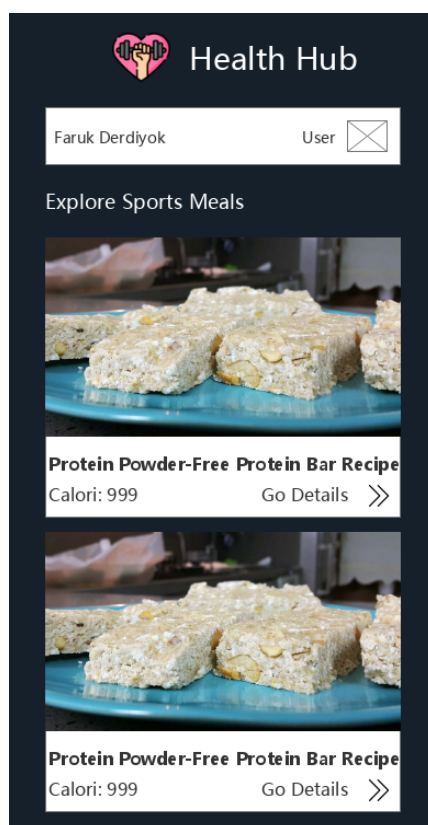
### 3.1.18 Public Profile Interface



Name of Item	Public Profile
Description of Purpose	Other users view the profile of user X.
Source of Input or Destination of Output	Label, Image, Notification Icon, Button Profile

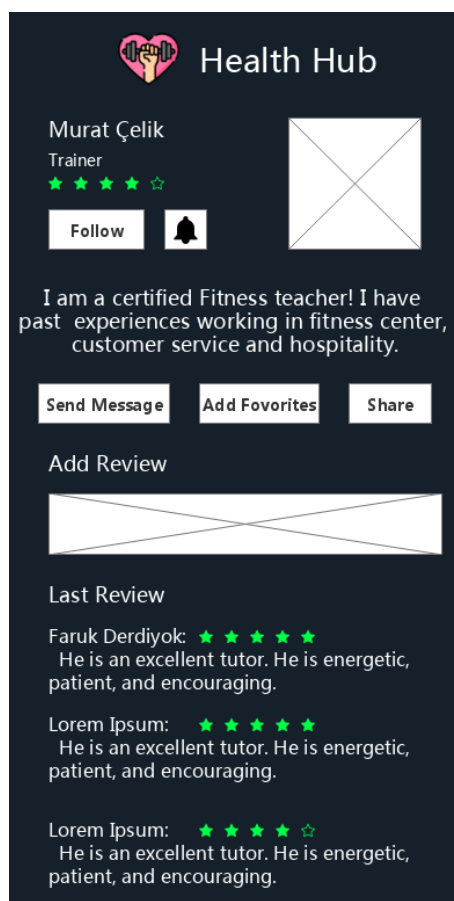
	Avatar
Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"> <li>1. Profiles of other users can be accessed through the search section.</li> <li>2. Profiles vary according to the user's role.</li> </ol>

### 3.1.18 Display Information of Food Interface



Name of Item	Food Details
Description of Purpose	Details of foods can be accessed.
Source of Input or Destination of Output	Label, Image, Label, Notification Icon, Button Profile Avatar
Relationships to Other Inputs / Outputs	Users can access the food details page in the search section or from the diet menu.s

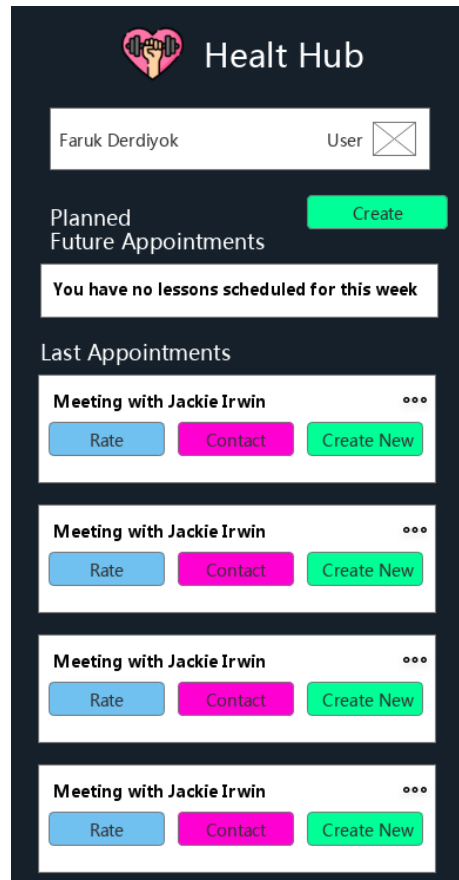
## 3.1.19 Export Profile Interface



Name of Item	Open Expert Profile
Description of Purpose	Expert profiles include interaction and feedback.
Source of Input or Destination of Output	Label, Image, Label, Notification Icon, Button Profile Avatar, Rate Module
Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"> <li>1. Users can leave comments and thoughts on the profile.</li> <li>2. Users can redirect through the search section.</li> </ol>



### 3.1.20 Appointment Interface



Name of Item	Appointments
Description of Purpose	Appointment management procedures are done on this page.
Source of Input or Destination of Output	Label, Icons, Buttons, Profile Avatar
Relationships to Other Inputs / Outputs	<ol style="list-style-type: none"> <li>1. It is redirected via the main menu.</li> <li>2. Viewing past records, voting and contacting the expert can be done.</li> <li>3. An appointment with a future date is scheduled.</li> </ol>

## 3.2. Functions

### 3.2.1 Sign up

<b>Use Case ID</b>	1
<b>Description</b>	System creates an account with the information taken from the user when the user signs up.
<b>Actors</b>	Unregistered User
<b>Preconditions</b>	The user has accessed the sign-up page.
<b>Post Conditions</b>	An account is created for the user in the system.
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1.The user navigates to the sign-up page.</li> <li>2. The user enters their personal information, including name, email address, and password.</li> <li>3.The user submits the sign-up form.</li> <li>4.The system validates the provided information.</li> <li>5.If the information is valid and no duplicate accounts are found, the system creates a new account for the user.</li> <li>6.The system stores the user's information, including the user ID, name, email address, and password.</li> <li>7.The system sends a confirmation email to the user for account verification.</li> <li>8.The user receives the confirmation email and verifies their account.</li> <li>9.The user's account is successfully created in the system.</li> </ol>
<b>Alternative Flow</b>	<ol style="list-style-type: none"> <li>4a. If the provided information is invalid, the system displays an error message indicating the validation errors.</li> <li>4b. If a duplicate account with the same email address is found, the system displays an error message informing the user to provide a different email address</li> </ol>
<b>Exceptional Flow</b>	<ol style="list-style-type: none"> <li>6a. If an error occurs while storing the user's information, the system displays an error message informing the user that their account could not be created.</li> </ol>

Rules	Name of the Business Rule	Result(s)
	User account must have a unique email address.	If a duplicate email address is detected during sign-up: The system displays an error

### 3.2.1.1 Functional Requirements-1.1

The system should store the user's account information securely in the database

### 3.2.1.2 Functional Requirements-1.2

The system should send a confirmation email to the user for account verification

## 3.2.2 Request to Become Expert

<b>Use Case ID</b>	2	
<b>Description</b>	The actor enters a request to become an expert.	
<b>Actors</b>	User	
<b>Preconditions</b>	The actor is logged into the system.	
<b>Post Conditions</b>	The request to become an expert is submitted.	
<b>Main Success Scenario</b>	1.The actor navigates to the "Become an Expert" section of the system. 2.The actor fills out the required information, including their qualifications, expertise areas, and contact details. 3.The actor submits the request to become an expert. 4.The system validates the provided information. 5.The system stores the request in the database. 6.The system notifies the actor that their request has been successfully submitted.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	4a. If the provided information is incomplete or invalid, the system displays an error message indicating the validation errors and prompts the actor to correct the information	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.2.1 Functional Requirements-2.1

The system should store the request information securely in the database

### 3.2.2.2 Functional Requirements-2.2

The system should provide feedback to the actor confirming the successful submission of their request.

### 3.2.3 Open Expert Account

<b>Use Case ID</b>	3	
<b>Description</b>	The receptionist approves user's request to become expert	
<b>Actors</b>	Receptionist, user	
<b>Preconditions</b>	The receptionist is logged into the system.	
<b>Post Conditions</b>	The user's request to become an expert is approved.	
<b>Main Success Scenario</b>	1.The receptionist accesses the pending requests for becoming an expert. 2.The receptionist selects the user's request from the list. 3.The receptionist reviews the user's qualifications, expertise areas, and contact details. 4.The receptionist determines whether the user meets the criteria to become an expert. 5.If the user meets the criteria, the receptionist approves the request. 6.The system updates the user's status to "Expert" in the database. 7.The system notifies the user that their request to become an expert has been approved.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	5a. If the user does not meet the criteria to become an expert, the receptionist rejects the request. 5b. The system updates the user's status to "Rejected" in the database. 5c. The system notifies the user that their request to become an expert has been rejected.	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	User Qualification Criteria	If the user does not meet the qualification criteria, the request will be rejected.

### 3.2.3.1 Functional Requirements-3.1

The system should display the user's qualifications, expertise areas, and contact details for the receptionist's review

### 3.2.3.2 Functional Requirements-3.2

The system should allow the receptionist to approve or reject the user's request

### 3.2.4 Open Business Account

<b>Use Case ID</b>	4	
<b>Description</b>	The receptionist can open business account for business owners	
<b>Actors</b>	Receptionist, business owner	
<b>Preconditions</b>	The receptionist is logged into the system.	
<b>Post Conditions</b>	A business account is successfully created for the business owner.	
<b>Main Success Scenario</b>	1.The receptionist receives a request from a business owner to open a business account. 2.The receptionist verifies the business owner's information 3.The receptionist accesses the account creation functionality in the system. 4.The receptionist enters the required information for the business account, including business name, owner's name, contact details, and any additional relevant information. 5.The system validates the provided information and ensures it meets the required criteria. 6.If the information is valid, the receptionist submits the account creation request. 7.The system creates a new business account for the business owner. 8.The system assigns a unique account ID to the business account.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.4.1 Functional Requirements-4.1

The system should create a new business account and assign a unique account ID

### 3.2.4.2 Functional Requirements-4.2

The system should provide the receptionist with an interface to verify the business owner's information and eligibility

### 3.2.5 Log In

<b>Use Case ID</b>	5	
<b>Description</b>	The actor enters the system and can start using it	
<b>Actors</b>	User, trainers, nutritionist, receptionist, business owner	
<b>Preconditions</b>	The actor is registered and has valid login credentials.	
<b>Post Conditions</b>	The actor successfully accesses the system and can begin using its functionalities.	
<b>Main Success Scenario</b>	1.The actor opens the system's login page. 2.The actor enters their username and password. 3.The system verifies the entered credentials. 4.If the credentials are valid, the system grants access to the actor. 5.The system redirects the actor to the system's main dashboard or home page.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	4a: If the entered credentials are invalid, the system displays an error message and prompts the actor to re-enter their username and password.	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

#### 3.2.5.1 Functional Requirements-5.1

The system should grant access to the actor if the credentials are valid

#### 3.2.5.2 Functional Requirements-5.2

The system should verify the entered credentials against the registered user database

## 3.2.6 Log Out

<b>Use Case ID</b>	6	
<b>Description</b>	The actor logs out of the system.	
<b>Actors</b>	User, trainers, nutritionist, receptionist, business owner	
<b>Preconditions</b>	The actor is currently logged in and using the system.	
<b>Post Conditions</b>	The actor is successfully logged out of the system and no longer has access to its functionalities.	
<b>Main Success Scenario</b>	1.The actor locates the logout button or option within the system. 2.The actor clicks on the logout button. 3.The system confirms the logout action. 4.The system terminates the actor's session. 5.The system redirects the actor to the system's logout confirmation page or the login page	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

## 3.2.6.1 Functional Requirements-6.1

The system should confirm the actor's intention to logout before terminating the session

## 3.2.6.2 Functional Requirements-6.2

NA

## 3.2.7 Forgot Password

<b>Use Case ID</b>	7
<b>Description</b>	System sends a password to the user who forgot the actor's password
<b>Actors</b>	User, trainers, nutritionist, receptionist, business owner
<b>Preconditions</b>	The user has forgotten their password and is unable to log into the

	system.	
<b>Post Conditions</b>	The user receives a new password and can use it to log into the system.	
<b>Main Success Scenario</b>	1.The user clicks on the "Forgot Password" link on the login page. 2.The system presents a password recovery form. 3.The user enters their registered email address in the password recovery form. 4.The user submits the password recovery form. 5.The system verifies the provided email address and generates a new password for the user. 6.The system sends an email containing the new password to the user's registered email address. 7.The user receives the email with the new password. 8.The user uses the new password to log into the system. 9.The system prompts the user to change their password upon successful login.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	If the user enters an invalid or unregistered email address (4a), the system displays an error message indicating the email address is not recognized. If there is an issue with sending the email containing the new password (6a), the system displays an error message informing the user to try again later.	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	The user must provide a registered email address for password recovery.	If the user enters an unregistered email address, the system displays an error message indicating the email address is not recognized.

### 3.2.7.1 Functional Requirements-7.1

The system should present a password recovery form where the user can enter their registered email address

### 3.2.7.2 Functional Requirements-7.2

The system should verify the provided email address against the registered user database

### 3.2.7.3 Functional Requirements-7.3

The system should generate a new password and send it to the user's registered email address



## 3.2.8 View Account

<b>Use Case ID</b>	8	
<b>Description</b>	The actor can view the user's account.	
<b>Actors</b>	User, trainers, nutritionist, receptionist, business owner	
<b>Preconditions</b>	The actor is logged into their respective account and has the necessary permissions to view user accounts.	
<b>Post Conditions</b>	The actor successfully views the user's account and accesses the relevant information.	
<b>Main Success Scenario</b>	1.The actor navigates to the user account section. 2.The system displays a search or selection interface to locate the desired user account. 3.The actor enters the necessary search criteria or selects the user account from the provided list. 4.The system retrieves and displays the user's account information, including their personal details, activity history, and any relevant data. 5.The actor reviews the user's account information and gains access to the desired details.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

## 3.2.8.1 Functional Requirements-8.1

The system should retrieve and display the user's account information from the database

## 3.2.8.2 Functional Requirements-8.2

## 3.2.9 Update Information

<b>Use Case ID</b>	9
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<b>Description</b>	The actor updates informations in their profile	
<b>Actors</b>	User, trainers, nutritionist, receptionist, business owner	
<b>Preconditions</b>	The actor is logged into the system and has appropriate permissions to update their profile information.	
<b>Post Conditions</b>	The actor's profile information is successfully updated in the system.	
<b>Main Success Scenario</b>	1.The actor selects the option to edit their profile. 2.The actor updates the desired fields, such as name, email address, phone number, or other relevant details. 3.The actor submits the updated profile information. 4.The system validates the provided information for any required fields or format constraints. 5.The system updates the actor's profile information in the system's database.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.9.1 Functional Requirements-9.1

The system should provide an interface for the actor to edit their profile information

### 3.2.9.2 Functional Requirements-9.2

The system should validate the provided information for any required fields or format constraints and update the actor's profile information in the database

### 3.2.10 Delete Account

<b>Use Case ID</b>	10
<b>Description</b>	The actor can delete the user's account.
<b>Actors</b>	User
<b>Preconditions</b>	The actor is logged into the system and has appropriate permissions to

	delete a user's account	
<b>Post Conditions</b>	The user's account is successfully deleted from the system.	
<b>Main Success Scenario</b>	1.The actor selects the option to delete the user's account. 2.The system prompts the actor to confirm the account deletion action. 3.The actor confirms the account deletion by providing a confirmation, such as entering a password or clicking a confirmation button. 4.The system validates the confirmation and proceeds with the account deletion process. 5.The system removes all associated data and records related to the user's account from the system's database.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.10.1 Functional Requirements-10.1

The system should display the actor's account information and available actions and should validate the deletion confirmation provided by the actor

### 3.2.10.2 Functional Requirements-10.2

The system should remove all associated data and records related to the user's account from the system's database.

### 3.2.11 Request Deletion

<b>Use Case ID</b>	11
<b>Description</b>	The actor can request the deletion of their own account.
<b>Actors</b>	Trainers, nutritionist, business owner
<b>Preconditions</b>	The actor is logged into the system and wants to request the deletion of their own account.

<b>Post Conditions</b>	The system receives the account deletion request from the actor.	
<b>Main Success Scenario</b>	1.The actor selects the option to request the deletion of their own account. 2.The system prompts the actor to confirm their intention to delete the account. 3.The actor confirms the request by providing a confirmation, such as entering a password or clicking a confirmation button. 4.The system receives the account deletion request from the actor and updates the account status accordingly. 5.The system generates a confirmation notification for the actor, acknowledging the receipt of the account deletion request.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.11.1 Functional Requirements-11.1

The system should prompt the actor to confirm the account deletion request action

### 3.2.11.2 Functional Requirements-11.2

The system should remove all associated data and records related to the user's account from the system's database

### 3.2.12 Approve to Deletion Request

<b>Use Case ID</b>	12
<b>Description</b>	The receptionist approves the account deletion request.
<b>Actors</b>	Receptionist
<b>Preconditions</b>	A user has requested the deletion of their account, and the receptionist has the authority to approve or reject the request
<b>Post Conditions</b>	The user's account deletion request is approved by the receptionist.
<b>Main Success</b>	1.The receptionist receives the account deletion request from the user.

<b>Scenario</b>	2.The receptionist selects the user's account deletion request. 3.The system presents the details of the account deletion request, including the user's information and reason for deletion. 4.The receptionist reviews the request and determines whether to approve or reject it. 5.If the receptionist decides to approve the request, the system updates the account status as "Approved for Deletion." 6.The system generates a notification to inform the user that their account deletion request has been approved. 7.The receptionist confirms the approval of the account deletion request. 8.The system deletes the user's account data or initiates the deletion process as per the system's data retention policy.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.12.1 Functional Requirements-12.1

The system should allow the receptionist to approve or reject the account deletion request

### 3.2.12.2 Functional Requirements-12.2

The system should generate a notification to inform the user of the approved account deletion request

### 3.2.13 Share Post

<b>Use Case ID</b>	13
<b>Description</b>	The actor can share posts.
<b>Actors</b>	User, trainers, nutritionist, business owner, receptionist
<b>Preconditions</b>	The actor is logged into the system and has the necessary privileges to share posts.
<b>Post Conditions</b>	The post is successfully shared by the actor in the system.
<b>Main Success</b>	1.The system presents the post sharing interface to the actor.

<b>Scenario</b>	2.The actor composes the content of the post, including text, images, or multimedia elements. 3.The actor specifies the visibility settings for the post, such as public, private, or specific audience. 4.The actor selects the "Share" or "Post" button to submit the shared post. 5.The system validates the content of the post for any errors or policy violations. 6.If the validation is successful, the system stores the shared post in the database.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	6a. Gives error if validation is not succesfull	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.13.1 Functional Requirements-13.1

The system should allow the actor to compose and customize the content of the post

### 3.2.13.2 Functional Requirements-13.2

The system should store the shared post in the database upon successful validation and update the actor's profile or activity feed to display the shared post

### 3.2.14 View Post

<b>Use Case ID</b>	14
<b>Description</b>	The actor can view posts.
<b>Actors</b>	User, trainers, nutritionist, receptionist, business owner
<b>Preconditions</b>	The actor is logged into the system and has the necessary privileges to view posts.
<b>Post Conditions</b>	The actor successfully views the posts in the system.
<b>Main Success Scenario</b>	1.The actor navigates to the posts section or their activity feed in the system. 2.The system retrieves and presents a list of posts to the actor.

	3.The actor scrolls or browses through the list of posts. 4.The system displays the content of each post, including text, images, or multimedia elements.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

#### 3.2.14.1 Functional Requirements-14.1

The system should provide a posts section or activity feed for the actor to view posts

#### 3.2.14.2 Functional Requirements-14.2

The system should allow the actor to click on a post to view it in more detail

#### 3.2.14.3 Functional Requirements-14.3

The actor can interact with the post, such as liking, commenting, or sharing it.

#### 3.2.15 Delete Post

<b>Use Case ID</b>	15
<b>Description</b>	The actor can delete the post they shared.
<b>Actors</b>	User, trainers, nutritionist, business owner, receptionist
<b>Preconditions</b>	The actor is logged into the system and has the necessary privileges to delete their own posts. The actor has previously shared a post.
<b>Post Conditions</b>	The post shared by the actor is successfully deleted from the system
<b>Main Success Scenario</b>	1.The system retrieves and presents a list of posts shared by the actor. 2.The actor identifies the post they want to delete from the list. 3.The actor selects the delete option or clicks on a delete icon/button associated with the post.

	4.The system prompts a confirmation message asking the actor to confirm the deletion. 5.The actor confirms the deletion by selecting the appropriate option or clicking on the confirmation button. 6.The system removes the post from the actor's profile and the system's database. 7.The system updates the post count and any associated metrics or statistics.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.15.1 Functional Requirements-15.1

The system should remove the post from the actor's profile and the system's database upon confirmation

### 3.2.15.2 Functional Requirements-15.2

### 3.2.16 Like Post

<b>Use Case ID</b>	16
<b>Description</b>	The actor can like posts.
<b>Actors</b>	User, trainers, nutritionist
<b>Preconditions</b>	The actor is logged into the system and has the necessary privileges to like posts.
<b>Post Conditions</b>	The post is successfully liked by the actor.
<b>Main Success Scenario</b>	1.The system displays the post along with the available actions. 2.The actor selects the "Like" option or clicks on a "Like" button associated with the post. 3.The system registers the actor's like for the post. 4.The system updates the like count associated with the post.



<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.16.1 Functional Requirements-16.1

The system should update the like count associated with the post

### 3.2.16.2 Functional Requirements-16.2

The system should provide a "Like" button associated with each post

### 3.2.17 Comment Post

<b>Use Case ID</b>	17
<b>Description</b>	The actor can comment on posts.
<b>Actors</b>	User, trainers, nutritionist
<b>Preconditions</b>	The actor is logged into the system and has the necessary privileges to comment on posts. There are posts available for the actor to comment on.
<b>Post Conditions</b>	The actor's comment is successfully posted on the selected post.
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1.The system displays the post along with the available actions.</li> <li>2.The actor selects the "Comment" option or clicks on a "Comment" button associated with the post.</li> <li>3.The system provides a text input field or a comment box for the actor to enter their comment.</li> <li>4.The actor enters their comment in the provided text input field.</li> <li>5.The system registers the actor's comment on the selected post.</li> </ol>
<b>Alternative Flow</b>	N/A
<b>Exceptional Flow</b>	N/A

Rules	Name of the Business Rule	Result(s)
	N/A	N/A

### 3.2.17.1 Functional Requirements-17.1

The system should provide a text input field or a comment box for the actor to enter their comment

### 3.2.17.2 Functional Requirements-17.2

The system should display the actor's comment along with the other comments on the post

### 3.2.18 Add Subscription

<b>Use Case ID</b>	18	
<b>Description</b>	The actor can add subscription information.	
<b>Actors</b>	Receptionist	
<b>Preconditions</b>	The receptionist is logged into their account and has the necessary permissions to add subscription information.	
<b>Post Conditions</b>	The receptionist successfully adds the subscription information to the system.	
<b>Main Success Scenario</b>	1.The system displays the list of existing subscriptions or provides an option to add a new subscription. 2.The receptionist chooses to add a new subscription. 3.The system prompts the receptionist to enter the details of the new subscription, such as name, price, duration, and benefits. 4.The receptionist enters the required information for the new subscription. 5.The system validates the entered information to ensure accuracy and completeness. 6.If the validation is successful, the system adds the new subscription to the list of available subscriptions.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	6a. System gives error upon unvalidation	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>

	N/A	N/A
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### 3.2.18.1 Functional Requirements-18.1

The system should allow the receptionist to add a new subscription by providing necessary fields for subscription details

### 3.2.18.2 Functional Requirements-18.2

The system should update the list of available subscriptions upon successful addition

### 3.2.19 Update Subscription

<b>Use Case ID</b>	19	
<b>Description</b>	The actor can update subscription information.	
<b>Actors</b>	Receptionist	
<b>Preconditions</b>	The Receptionist is logged into the system and has the necessary privileges to update subscription information.	
<b>Post Conditions</b>	The subscription information is successfully updated in the user's account.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1.The system displays the user's account settings or subscription management page.</li> <li>2.The Receptionist selects the user whose subscription information needs to be updated.</li> <li>3.The system retrieves the user's existing subscription information.</li> <li>4.The Receptionist modifies the subscription details, such as subscription type, duration, or pricing.</li> <li>5.The system validates the updated subscription information.</li> <li>6.The system updates the subscription information in the user's account.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	5a. Gives error upon un-validation	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>

	N/A	N/A
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### 3.2.19.1 Functional Requirements-19.1

The system should allow the receptionist to select and modify the details of a specific subscription

### 3.2.19.2 Functional Requirements-19.2

The system should update the subscription details in the system upon successful modification

### 3.2.20 Delete Subscription

<b>Use Case ID</b>	20	
<b>Description</b>	The actor can delete the subscription information.	
<b>Actors</b>	Receptionist	
<b>Preconditions</b>	The Receptionist is logged into the system and has the necessary privileges to delete subscription information.	
<b>Post Conditions</b>	The subscription information is successfully deleted from the user's account.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1.The system displays the user's account settings or subscription management page.</li> <li>2.The Receptionist selects the user whose subscription information needs to be deleted.</li> <li>3.The system retrieves the user's existing subscription information.</li> <li>4.The system presents a confirmation message or prompt to confirm the deletion of the subscription information.</li> <li>5.The Receptionist confirms the deletion of the subscription information.</li> <li>6.The system deletes the subscription information from the user's account.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>

	N/A	N/A
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### 3.2.20.1 Functional Requirements-20.1

The system should allow the receptionist to select and delete a specific subscription

### 3.2.20.2 Functional Requirements-20.2

The system should remove the selected subscription from the system upon successful deletion

### 3.2.21 Review Subscription

<b>Use Case ID</b>	21	
<b>Description</b>	The actor can inspect subscriptions.	
<b>Actors</b>	User	
<b>Preconditions</b>	The User is logged into the system and has access to the subscription management section.	
<b>Post Conditions</b>	The User gains access to the subscription details and information	
<b>Main Success Scenario</b>	1.The system displays the list of available subscriptions. 2.The User selects a specific subscription from the list. 3.The system presents detailed information about the selected subscription, including its type, duration, pricing, and features. 4.The User inspects the subscription details, such as its benefits and restrictions.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.21.1 Functional Requirements-21.1

The system should allow the User to select and inspect a specific subscription

### 3.2.21.2 Functional Requirements-21.2

## 3.2.22 Subscribe

<b>Use Case ID</b>	22	
<b>Description</b>	The actor can subscribe to one of the subscriptions.	
<b>Actors</b>	User	
<b>Preconditions</b>	The User is logged into the system and has access to the subscription management section.	
<b>Post Conditions</b>	The User successfully subscribes to the selected subscription.	
<b>Main Success Scenario</b>	1.The system displays the list of available subscriptions. 2.The User selects a specific subscription from the list. 3.The system presents detailed information about the selected subscription, including its type, duration, pricing, and features. 4.The User decides to subscribe to the selected subscription. 5.The User confirms the subscription. 6.The system processes the subscription request. 7.The system updates the User's account to reflect the subscribed subscription.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

**3.2.22.1 Functional Requirements-22.1**

The system should allow the User to select and subscribe to a specific subscription

**3.2.22.2 Functional Requirements-22.2**

The system should process and update the User's account with the subscribed subscription

## 3.2.23 Unsubscribe

<b>Use Case ID</b>	23	
<b>Description</b>	The actor can unsubscribe.	
<b>Actors</b>	User	
<b>Preconditions</b>	The User is logged into the system and has an active subscription.	
<b>Post Conditions</b>	The User successfully unsubscribes from the current subscription.	
<b>Main Success Scenario</b>	1.The system displays the User's current subscription information. 2.The User selects the option to unsubscribe from the current subscription. 3.The system prompts the User to confirm the unsubscribe action. 4.The User confirms the unsubscribe action. 5.The system processes the unsubscribe request. 6.The system updates the User's account to reflect the unsubscribed status.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

**3.2.23.1 Functional Requirements-23.1**

The system should allow the User to select and initiate the unsubscribe action

**3.2.23.2 Functional Requirements-23.2**

The system should process and update the User's account with the unsubscribed status

## 3.2.24 Advertisement Post

<b>Use Case ID</b>	24
<b>Description</b>	The actor can post from their business account.

<b>Actors</b>	Business owner	
<b>Preconditions</b>	The Business Owner is logged into their business account.	
<b>Post Conditions</b>	The Business Owner successfully creates and publishes a post from their business account.	
<b>Main Success Scenario</b>	1.The Business Owner navigates to the post creation section in their business account. 2.The system displays the post creation form. 3.The Business Owner enters the content, including text, images, or videos, for the post. 4.The Business Owner selects the target audience or visibility settings for the post. 5.The Business Owner includes any relevant tags or categories for the post. 6.The Business Owner previews the post to ensure it appears as intended. 7.The Business Owner submits the post for publishing. 8.The system processes the post and stores it in the database. 9.The system publishes the post, making it visible to the designated audience.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.24.1 Functional Requirements-24.1

The system should allow the Business Owner to preview the post before submitting it for publishing

### 3.2.24.2 Functional Requirements-24.2

### 3.2.25 Share Programs

<b>Use Case ID</b>	25
<b>Description</b>	The actor can share paid or free programs.



<b>Actors</b>	Trainers, nutritionist	
<b>Preconditions</b>	The Trainer or Nutritionist is logged into their account and has access to program creation and sharing functionalities.	
<b>Post Conditions</b>	The Trainer or Nutritionist successfully shares a paid or free program with the intended audience.	
<b>Main Success Scenario</b>	1.The Trainer or Nutritionist navigates to the program creation section in their account. 2.The system displays the program creation form. 3.The Trainer or Nutritionist enters the details of the program, including the program name, description, duration, content, and any additional information. 4.The Trainer or Nutritionist sets the program type as either paid or free. 5.The Trainer or Nutritionist adds any necessary attachments or resources related to the program. 6.The Trainer or Nutritionist previews the program to ensure all the information is accurate. 7.The Trainer or Nutritionist submits the program for sharing. 8.The system processes the program and stores it in the database. 9.The system makes the program available for access to the intended audience based on the program type (paid or free).	
<b>Alternative Flow</b>	4a. If is paid the Trainer or Nutritionist specifies the price and payment details.	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.25.1 Functional Requirements-25.1

The system should display a program creation form with fields for program details, type (paid or free), price, and payment details (if applicable)

### 3.2.25.2 Functional Requirements-25.2

The system should make the program available for access to the intended audience based on the program type

## 3.2.26 Open Community

<b>Use Case ID</b>	26	
<b>Description</b>	The actor can open a community.	
<b>Actors</b>	Trainers, nutritionist	
<b>Preconditions</b>	The actor must be signed in.	
<b>Post Conditions</b>	The community must be open.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must go to the community page.</li> <li>2. The actor must click on the open community button.</li> <li>3. The actor must enter community details in the popup window.</li> <li>4. The actor must click on create community button</li> <li>5. The system must save the new community.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	If the user enters an opened community name, it must be warned with a pop-up.	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Only experts can open a community.	The community is opened and managed by experts.

## 3.2.26.1 Functional Requirements-26.1

The system should assign the actor as the owner/administrator of the newly created community

## 3.2.26.2 Functional Requirements-26.2

## 3.2.27 Delete Community

<b>Use Case ID</b>	27
<b>Description</b>	The actor can delete a community.
<b>Actors</b>	Trainers, nutritionist

<b>Preconditions</b>	The actor must be signed in.	
<b>Post Conditions</b>	The community must be deleted.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must go to the community page.</li> <li>2. The actor goes to the community page to be deleted.</li> <li>3. The actor presses the community delete button.</li> <li>4. The system deletes the community.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	<ol style="list-style-type: none"> <li>3.1 The system warns that there is an open activity in the community.</li> <li>3.2 The system goes to the community page.</li> </ol>	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Only experts can delete a community.	The community is opened and managed by experts.

### 3.2.27.1 Functional Requirements-27.1

The system should verify the actor's ownership/administrator status before proceeding with the deletion

### 3.2.27.2 Functional Requirements-27.2

The system should permanently delete the community and its associated data from the system

### 3.2.28 Update Community

<b>Use Case ID</b>	28
<b>Description</b>	The actor can update a community.
<b>Actors</b>	Trainers, nutritionist
<b>Preconditions</b>	The actor must be signed in.
<b>Post Conditions</b>	The community must be updated.
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must go to the community page.</li> <li>2. The actor goes to the community page to be updated.</li> <li>3. The actor must press the edit button.</li> <li>4. The system updates the community.</li> </ol>

<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	3.1 The system warns that there is an open activity in the community. 3.2 The system goes to the community page.	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Only experts can delete a community.	The community is opened and managed by experts.

### 3.2.28.1 Functional Requirements-28.1

The system should update the community's information based on the changes made by the actor

### 3.2.28.2 Functional Requirements-28.2

The system should verify the actor's ownership/administrator status before proceeding with the update

### 3.2.29 Create Community Event

<b>Use Case ID</b>	29	
<b>Description</b>	The actor can create a community event invitation.	
<b>Actors</b>	Trainers, nutritionist	
<b>Preconditions</b>	The actor must be on the community page.	
<b>Post Conditions</b>	The new event is shared in the community.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must go to the community page.</li> <li>2. The actor must press the create event button.</li> <li>3. The actor must enter the event details.</li> <li>4. The actor presses the create event button.</li> <li>5. The system must save the new event.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	If event details are incomplete, a warning will be issued.	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>

	Only experts can organize community events.	Experts organize events.
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### 3.2.29.1 Functional Requirements-29.1

The system should validate the invitation details before saving the invitation

### 3.2.29.2 Functional Requirements-29.2

The system should generate a unique invitation ID for each invitation created

### 3.2.30 Delete Community Event

<b>Use Case ID</b>	30	
<b>Description</b>	The actor can delete a community event.	
<b>Actors</b>	Trainers, nutritionist	
<b>Preconditions</b>	The actor must be on the community page.	
<b>Post Conditions</b>	The system must delete the event.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must go to the community page.</li> <li>2. The actor must go to the event page.</li> <li>3. The actor must press the delete event button.</li> <li>4. The system deletes the activity.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Only experts can organize community events.	Experts organize events.

### 3.2.30.1 Functional Requirements-30.1

The system should remove the community event from the system upon successful deletion

### 3.2.30.2 Functional Requirements-30.2

The system should verify the actor's ownership/organizer status before proceeding with the deletion

### 3.2.31 Update Community Event

<b>Use Case ID</b>	31	
<b>Description</b>	The actor can update a community event invitation.	
<b>Actors</b>	Trainers, nutritionist	
<b>Preconditions</b>	The actor must be on the community page.	
<b>Post Conditions</b>	The system must update the event.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must go to the community page.</li> <li>2. The actor must go to the event page.</li> <li>3. The actor must press the event edit button.</li> <li>4. The actor must make changes to the event details.</li> <li>5. The actor must press the save changes button.</li> <li>6. The system must update the event's information.</li> </ol>	
<b>Alternative Flow</b>	<ol style="list-style-type: none"> <li>4.1 The actor removes users who accept the event.</li> <li>4.2 5. The actor must press the save changes button.</li> </ol>	
<b>Exceptional Flow</b>	<ol style="list-style-type: none"> <li>4.1 The system warns that the changes are not appropriate.</li> <li>4.2 The system sends the actor to the event page.</li> </ol>	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Only experts can organize community events.	Experts organize events.

#### 3.2.31.1 Functional Requirements-31.1

The system should save the updated invitation in the system's database

#### 3.2.31.2 Functional Requirements-31.2

The system should validate the updated invitation details

### 3.2.32 Join Community

<b>Use Case ID</b>	32
<b>Description</b>	The actor can join the community.

<b>Actors</b>	User, trainers, nutritionist	
<b>Preconditions</b>	The actor must be on the community page.	
<b>Post Conditions</b>	The number of community members increases.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must choose a community.</li> <li>2. The actor must go to the page of the chosen community.</li> <li>3. The actor must press the join community button.</li> <li>4. The system must add the actor to the community participants.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Everyone has the right to join and leave the community.	N/A

### 3.2.32.1 Functional Requirements-32.1

The system should add the actor's profile to the membership list of the selected community upon successful join

### 3.2.32.2 Functional Requirements-32.2

The system should maintain a membership list for each community

### 3.2.33 Leave Community

<b>Use Case ID</b>	33
<b>Description</b>	The actor can leave the community.
<b>Actors</b>	User, trainers, nutritionist
<b>Preconditions</b>	The actor must be on the community page.
<b>Post Conditions</b>	The number of community members decreased.

<b>Main Success Scenario</b>	1. The actor must choose a community. 2. The actor must go to the page of the chosen community. 3. The actor must press the leave community button. 4. The system should delete the actor from the community participants.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Everyone has the right to join and leave the community.	Community participation may increase or decrease.

### 3.2.33.1 Functional Requirements-33.1

The system should remove the actor's profile from the membership list of the selected community upon successful leave

### 3.2.33.2 Functional Requirements-33.2

### 3.2.34 Register Community Event

<b>Use Case ID</b>	34
<b>Description</b>	The actor can register for the community event.
<b>Actors</b>	User, trainers, nutritionist
<b>Preconditions</b>	The actor must have joined the community.
<b>Post Conditions</b>	An email is sent to the actor for event details.
<b>Main Success Scenario</b>	1. The actor goes to the community page. 2. The actor chooses an event. 3. The actor presses the apply button on the event page. 4. The actor fills in the information on the application page. 5. The actor presses the apply button. 6. The system must add the actor to the event participants.



<b>Alternative Flow</b>	4.1 The system indicates that a different event was attended at the same time. 4.2 The user presses the continue button and applies.	
<b>Exceptional Flow</b>	4.1 The system gives a missing information warning.	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	To participate in an event, you must be a member of that community.	The actor participates in the community event.

### 3.2.34.1 Functional Requirements-34.1

The system should add the actor's registration to the event upon successful registration

### 3.2.34.2 Functional Requirements-34.2

### 3.2.35 Write an Own Special Exercise and Diet Program

<b>Use Case ID</b>	35	
<b>Description</b>	The actor can prepare their own special exercise and diet program.	
<b>Actors</b>	User	
<b>Preconditions</b>	The actor must be logged in.	
<b>Post Conditions</b>	The actor owns a program.	
<b>Main Success Scenario</b>	1. The actor must go to his profile page. 2. The actor must press the program button. 3. The actor must fill in the information about his program. 4. The actor must press the save program button.	
<b>Alternative Flow</b>	2.1 The actor can choose a ready-made program. 2.2 The actor can make changes to a ready-made program.	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Every user can create a free program	The actor has a program.

	for herself/himself.	
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### 3.2.35.1 Functional Requirements-35.1

The system should validate the entered information and display error messages for any validation errors or missing information

### 3.2.35.2 Functional Requirements-35.2

### 3.2.36 Get Notification

<b>Use Case ID</b>	36	
<b>Description</b>	The actor receives notifications about program targets.	
<b>Actors</b>	User	
<b>Preconditions</b>	The actor must have program goals.	
<b>Post Conditions</b>	The actor must receive notification.	
<b>Main Success Scenario</b>	1. The system prepares notifications in accordance with the actor's goals. 2. The actor presses the notifications button. 3. The actor sees the notifications that come to them.	
<b>Alternative Flow</b>	2. The actor can change the notification settings.	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.36.1 Functional Requirements-36.1

The system should send notifications to the actor's preferred notification method

### 3.2.36.2 Functional Requirements-36.2

The system should generate notifications when the actor is behind or ahead of schedule in achieving the program targets

## 3.2.37 View Statistic

<b>Use Case ID</b>	37	
<b>Description</b>	The actor can view detailed statistical analysis of program progress and goals.	
<b>Actors</b>	User	
<b>Preconditions</b>	The actor must enter her/his data into the system.	
<b>Post Conditions</b>	The actor can review her/his statistics.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must go to his profile page.</li> <li>2. The actor must click on the My stats button.</li> <li>3. The actor must see his data with statistical results and visuals.</li> </ol>	
<b>Alternative Flow</b>	3.1 The actor must see her/his data with different charts.	
<b>Exceptional Flow</b>	3.1 If the actor has less than 7 days of data, the actor will receive a warning about it.	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	The user must have 7 days of data.	The actor must see the program statistics.

## 3.2.37.1 Functional Requirements-37.1

The system should perform statistical analysis on the program data

## 3.2.37.2 Functional Requirements-37.2

## 3.2.38 Publish Recommendation and Newsletters

<b>Use Case ID</b>	38
<b>Description</b>	The actor can receive recommendations and newsletters thanks to the recommendation system in the system.
<b>Actors</b>	User, trainers, nutritionist
<b>Preconditions</b>	The actor must have spent some time in the system.

<b>Post Conditions</b>	The suggestion is shared with the actor.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must receive notification.</li> <li>2. The actor must click on the notification.</li> <li>3. Actor must view their suggestions</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Suggestions in the system will be made in accordance with the KVKK on the user's data.	Recommendations are user specific.

### 3.2.38.1 Functional Requirements-38.1

The recommendation system should generate personalized recommendations and newsletters

### 3.2.38.2 Functional Requirements-38.2

### 3.2.39 See Profile

<b>Use Case ID</b>	39
<b>Description</b>	The actor can see profiles of other users.
<b>Actors</b>	User, trainers, nutritionist, receptionist, business owner
<b>Preconditions</b>	The actor must be logged in.
<b>Post Conditions</b>	The actor must be able to see the other actor's profile.
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The user must click on a person's profile.</li> <li>2. The user should see the main details in the profile.</li> </ol>
<b>Alternative Flow</b>	N/A
<b>Exceptional Flow</b>	N/A

Rules	Name of the Business Rule	Result(s)
	Users' public information can be limited by the user.	The actor can view profiles.

### 3.2.39.1 Functional Requirements-39.1

The system should retrieve and present the profile information of the selected user

### 3.2.39.2 Functional Requirements-39.2

### 3.2.40 Follow User

<b>Use Case ID</b>	40	
<b>Description</b>	The actor can follow other users.	
<b>Actors</b>	User, trainers, nutritionist	
<b>Preconditions</b>	The actor must be logged in.	
<b>Post Conditions</b>	The actor follows the other actor.	
<b>Main Success Scenario</b>	1. The user must click on a person's profile. 2. The actor must click on the follow button in the profile. 3. The system must add the actor to the followers.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
Rules	Name of the Business Rule	Result(s)
	N/A	N/A

### 3.2.40.1 Functional Requirements-40.1

The actor should be able to view updates or activities of the followed users in their own feed or notification section

### 3.2.40.2 Functional Requirements-40.2

## 3.2.41 Unfollow User

<b>Use Case ID</b>	41	
<b>Description</b>	The actor can unfollow other users.	
<b>Actors</b>	User, trainers, nutritionist	
<b>Preconditions</b>	The actor must be logged in.	
<b>Post Conditions</b>	The actor unfollows the other actor.	
<b>Main Success Scenario</b>	1. The user must click on a person's profile. 2. The actor must click on the unfollow button in the profile. 3. The system must delete the actor from the followers.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

**3.2.41.1 Functional Requirements-41.1**

The actor should no longer receive updates or activities from the unfollowed users in their feed or notification section

**3.2.41.2 Functional Requirements-41.2**

## 3.2.42 View Progress and Goals

<b>Use Case ID</b>	42	
<b>Description</b>	The expert can view the user's progress and goals.	
<b>Actors</b>	User, trainers, nutritionist	
<b>Preconditions</b>	The expert must be logged in.	
<b>Post Conditions</b>	The expert must view the profile.	

<b>Main Success Scenario</b>	1. The expert should go to the user's page. 2. The expert user should click on the statistics button. 3. The expert should see the user's statistics.	
<b>Alternative Flow</b>	2.1 The expert can see statistics with different graphs.	
<b>Exceptional Flow</b>	2.1 The expert must receive a warning that the user has no statistics.	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Experts may only review people's progress and data for counseling purposes.	Experts provide consultation.

### 3.2.42.1 Functional Requirements-42.1

The system should provide appropriate visualization and presentation of user progress and goals for the expert

### 3.2.42.2 Functional Requirements-42.2

The system should allow users to grant access to experts to view their progress and goals

### 3.2.43 Write Progress and Goals from Expert

<b>Use Case ID</b>	43
<b>Description</b>	The expert can make changes to the progress and goals of the user.
<b>Actors</b>	User, trainers, nutritionist
<b>Preconditions</b>	The user must have a program.
<b>Post Conditions</b>	The user must accept the program.
<b>Main Success Scenario</b>	1. The expert must enter the user's profile. 2. The expert must examine the user's program. 3. The expert user must press the edit program button. 4. The expert must make the changes. 5. The expert must press the submit changes button.
<b>Alternative Flow</b>	4.1 The expert can make changes to the target of the user.
<b>Exceptional Flow</b>	2.1 The expert receives a warning that the user does not have a program.

Rules	Name of the Business Rule	Result(s)
	Experts can make changes to the program as long as users allow.	The user uses the new program.

### 3.2.43.1 Functional Requirements-43.1

The system should update the user's progress and goals with the changes made by the expert

### 3.2.43.2 Functional Requirements-43.2

### 3.2.44 Communicate with Expert

<b>Use Case ID</b>	44	
<b>Description</b>	The user can communicate with trainers and nutritionists in writing.	
<b>Actors</b>	User, trainers, nutritionist	
<b>Preconditions</b>	The user must be logged into the system.	
<b>Post Conditions</b>	The user must send the message to the expert.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The user clicks on the expert's profile.</li> <li>2. The user clicks the message button in the profile.</li> <li>3. The user writes the message and presses the send button.</li> <li>4. The system forwards the message to the expert.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	3.1 If the user has sent 3 messages, the user receives a warning that their has to wait for 24 hours.	
Rules	Name of the Business Rule	Result(s)
	If the user writes to an expert that they have not made an appointment with, the user should have 3 daily messages.	The message is successfully transmitted.

### 3.2.44.1 Functional Requirements-44.1

The system should notify the user and trainers and/or nutritionists of new messages



### 3.2.44.2 Functional Requirements-44.2

#### 3.2.45 Display Information of Food

<b>Use Case ID</b>	45	
<b>Description</b>	The actor can display the nutritional values and calories of foods.	
<b>Actors</b>	User, trainers, nutritionist	
<b>Preconditions</b>	The actor must be logged into the system.	
<b>Post Conditions</b>	Food information is displayed in the system.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor should go to the food page.</li> <li>2. The actor must search for food on the food page.</li> <li>3. The actor must display information about the food.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	The system should pull this information with an api and its source should be specified.	Food-related information is displayed accurately and with a clear source.

### 3.2.45.1 Functional Requirements-45.1

The system should retrieve and display the nutritional values and calorie content of the selected food item

### 3.2.45.2 Functional Requirements-45.2

#### 3.2.46 Enter Measured Values

<b>Use Case ID</b>	46
<b>Description</b>	The actor can enter regular information into the system for measured values.

<b>Actors</b>	User, trainers, nutritionist	
<b>Preconditions</b>	The actor must be on their profile page.	
<b>Post Conditions</b>	Statistics must be updated by the system.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must enter their profile.</li> <li>2. The actor must enter my info button.</li> <li>3. The actor must press the new record button.</li> <li>4. The actor must enter his information.</li> <li>5. The actor must press the save button.</li> <li>6. The system must update the actor's information.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	5.1 The actor must be warned that the information they entered is not realistic.	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	This information includes weight, height, foods consumed, etc. Measurements should be limited to certain intervals.	The must should reflect the profile with up-to-date information.

### 3.2.46.1 Functional Requirements-46.1

The system should store the entered values in the user's profile or designated storage for tracking and analysis

### 3.2.46.2 Functional Requirements-46.2

### 3.2.47 Enter Exercise Information

<b>Use Case ID</b>	47
<b>Description</b>	The actor can enter their exercise information into the system.
<b>Actors</b>	User, trainers, nutritionist
<b>Preconditions</b>	The user must turn on post sharing.
<b>Post Conditions</b>	The actor's program must be shared as a post.

<b>Main Success Scenario</b>	1. The actor must come to the post page. 2. The actor must press fetch their program. 3. The actor must press the share program button. 4. The system must add the program as a post.	
<b>Alternative Flow</b>	2.1.1 The actor can edit the program. 2.2.1 The actor must write a program from scratch.	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Paid programs cannot be shared publicly.	Programs that are open to everyone are shared in the system.

### 3.2.47.1 Functional Requirements-47.1

The system should store the entered exercise data in the user's profile or designated storage for tracking and analysis

### 3.2.47.2 Functional Requirements-47.2

### 3.2.48 Create an Open Appointment

<b>Use Case ID</b>	48
<b>Description</b>	The actor can create an open appointment in the system.
<b>Actors</b>	Trainers, nutritionist
<b>Preconditions</b>	The actor must go to the appointment page.
<b>Post Conditions</b>	The new appointment is opened in the system.
<b>Main Success Scenario</b>	1. The actor must go to the appointment page. 2. The actor must press the create appointment button. 3. The actor must enter the appointment details. 4. The actor must press the share appointment button. 5. The system must show the appointment in the system.
<b>Alternative Flow</b>	N/A

<b>Exceptional Flow</b>	4.1 The system warns about appointment conflict.	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Experts determine their own appointment times. Experts have the right to make changes.	The public appointment invitation opens.

### 3.2.48.1 Functional Requirements-48.1

The system should store the appointment details in the system database

### 3.2.48.2 Functional Requirements-48.2

### 3.2.49 Cancel an Appointment

<b>Use Case ID</b>	49	
<b>Description</b>	The actor can cancel an appointment in the system.	
<b>Actors</b>	Trainers, nutritionist	
<b>Preconditions</b>	The actor must go to the appointment page.	
<b>Post Conditions</b>	The appointment is deleted in the system.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must go to the appointment page.</li> <li>2. The actor must choose an appointment.</li> <li>3. The actor must go to the appointment page.</li> <li>4. The actor must press the delete appointment button.</li> <li>5. The system must pop-up for confirmation.</li> <li>6. The actor must approve.</li> <li>7. The system should delete the appointment.</li> </ol>	
<b>Alternative Flow</b>	<ol style="list-style-type: none"> <li>5.1.1 The actor disapproves.</li> <li>5.1.2 The system displays the appointment page.</li> </ol>	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>

	Experts determine their own appointment times. Experts have the right to make changes.	The public appointment invitation closes.
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### 3.2.49.1 Functional Requirements-49.1

The system should update the appointment status as canceled and remove it from the actor's appointment list

### 3.2.49.2 Functional Requirements-49.2

### 3.2.50 View the Profiles

<b>Use Case ID</b>	50	
<b>Description</b>	The user can view the profiles of trainers and nutritionists in the system.	
<b>Actors</b>	User, trainers, nutritionist	
<b>Preconditions</b>	The user must be logged in.	
<b>Post Conditions</b>	The experts' page must be viewed in detail.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The user must go to the experts page.</li> <li>2. The user must choose an expert.</li> <li>3. The user must go to the expert's profile.</li> <li>4. The system must show the expert's information to the user.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

### 3.2.50.1 Functional Requirements-50.1

The system should allow users to scroll or navigate through the profile page to explore the information

### 3.2.50.2 Functional Requirements-50.2

### 3.2.51 Book an Appointment

<b>Use Case ID</b>	51	
<b>Description</b>	The user can book an appointment with the trainers and nutritionists in the system.	
<b>Actors</b>	User, trainers, nutritionist	
<b>Preconditions</b>	The user must select an appointment.	
<b>Post Conditions</b>	The user must book an appointment.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The user must select an appointment.</li> <li>2. The user must register for an appointment.</li> <li>3. The expert must confirm the appointment.</li> <li>4. The user must receive confirmation notification.</li> <li>5. The user must proceed to the payment step with the information received.</li> <li>6. The user must enter card information.</li> <li>7. The system must check the payment.</li> <li>8. The system must save the user's appointment to the system.</li> </ol>	
<b>Alternative Flow</b>	<ol style="list-style-type: none"> <li>3.1.1 The expert should not confirm the appointment.</li> <li>3.1.2 The system removes the appointment from the system.</li> </ol>	
<b>Exceptional Flow</b>	<ol style="list-style-type: none"> <li>7.1.1 The system should issue a payment fail warning.</li> <li>7.1.2 The system should go to the appointment page.</li> </ol>	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Experts determine the appointment time.	An appointment is created and both parties are informed.

#### 3.2.51.1 Functional Requirements-51.1

The system should check the availability of the selected trainer or nutritionist for the chosen slot

#### 3.2.51.2 Functional Requirements-51.2

The system should update the appointment schedule and reserve the selected slot upon successful booking

## 3.2.52 Make a Online Conversation

<b>Use Case ID</b>	52	
<b>Description</b>	The user can have an online conversation with the expert on the platform.	
<b>Actors</b>	User, trainers, nutritionist	
<b>Preconditions</b>	The actor must have an appointment.	
<b>Post Conditions</b>	The actor must complete their appointment.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must go to the appointments page.</li> <li>2. The actor must click on my appointments button.</li> <li>3. The actor must start the appointment whose time has come.</li> <li>4. The system must display the online conversation screen.</li> <li>5. The system must perform the operations for the online call.</li> <li>6. The actor must complete his appointment.</li> </ol>	
<b>Alternative Flow</b>	<ol style="list-style-type: none"> <li>4.1.1 The actor can make the appointment face to face.</li> <li>4.1.2 The actor should indicate that he has finished the appointment after the appointment.</li> </ol>	
<b>Exceptional Flow</b>	4.1 The system should log the troubles in the online conversation.	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Problems experienced in online conversations cannot be the responsibility of the user.	Online interviews are completed successfully.

**3.2.52.1 Functional Requirements-52.1**

The system should enable real-time messaging between the user and the expert

**3.2.52.2 Functional Requirements-52.2**

The system should record the conversation history for future reference

## 3.2.53 Rate

<b>Use Case ID</b>	53
<b>Description</b>	The actor can rate the appointment.

<b>Actors</b>	User	
<b>Preconditions</b>	The actor must complete the appointment.	
<b>Post Conditions</b>	The expert ratings are reflected in the profile.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must go to the appointments page.</li> <li>2. The actor must view the completed appointments.</li> <li>3. The actor must see the selected appointment page.</li> <li>4. The actor must rate.</li> <li>5. The system must save the score.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Expert ratings are shown in the profile.	The expert score is updated with the actor's rating.

### 3.2.53.1 Functional Requirements-53.1

The system should record and save the rating

### 3.2.53.2 Functional Requirements-53.2

### 3.2.54 Comment on Appointment

<b>Use Case ID</b>	54
<b>Description</b>	The actor can comment the appointment
<b>Actors</b>	User
<b>Preconditions</b>	The actor must complete the appointment.
<b>Post Conditions</b>	The expert comments are reflected in the profile.
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must go to the appointments page.</li> <li>2. The actor must view the completed appointments.</li> <li>3. The actor must see the selected appointment page.</li> <li>4. The actor must comment.</li> </ol>



	5. The system must save the comment.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	Expert comments are shown in the profile.	Expert profiles contain comments.

### 3.2.54.1 Functional Requirements-54.1

The system should record and save the comment

### 3.2.54.2 Functional Requirements-54.

### 3.2.55 Write Expert Opinions

<b>Use Case ID</b>	55	
<b>Description</b>	The expert can enter information about the user into the system after the appointment.	
<b>Actors</b>	User, trainers, nutritionist	
<b>Preconditions</b>	The actor must complete the appointment.	
<b>Post Conditions</b>	The expert must record information about the user.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The expert must go to the appointment page.</li> <li>2. The expert must view his appointment contacts.</li> <li>3. The expert must press the add button to add information to the user in the appointment.</li> <li>4. The expert must add information.</li> <li>5. The expert must press the save information button.</li> <li>6. The system must store user information in the system.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>

	No one other than the expert can see what the expert writes about the user.	Experts follow the information of the users from the system.
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### 3.2.55.1 Functional Requirements-55.1

The system should record and save the entered information

### 3.2.55.2 Functional Requirements-55.2

### 3.2.56 Write Expert's Recommendation Program

<b>Use Case ID</b>	56	
<b>Description</b>	The expert can determine the exercise and diet program of the user after the appointment.	
<b>Actors</b>	User, trainers, nutritionist	
<b>Preconditions</b>	The user and the expert must complete the appointment.	
<b>Post Conditions</b>	The user's program must be refreshed.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The expert must enter the user's profile.</li> <li>2. The expert must click on the add program button.</li> <li>3. The expert must write the program in details.</li> <li>4. The expert must press the save button.</li> <li>5. The system must update the user's program.</li> </ol>	
<b>Alternative Flow</b>	3.1 The expert can update the existing one instead of writing a program from scratch.	
<b>Exceptional Flow</b>	4.1 A warning appears that the program is overloaded.	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	The expert program must be created for the user. Programs should be scanned with artificial intelligence.	The user must continue with the new program.

### 3.2.56.1 Functional Requirements-56.1

The system should support the expert in determining diet programs, including nutritional intake, meal plans, and dietary restrictions

### 3.2.56.2 Functional Requirements-56.2

#### 3.2.57 Review Complaints and Suggestions

<b>Use Case ID</b>	57	
<b>Description</b>	The actor can review complaints and suggestions.	
<b>Actors</b>	Receptionist	
<b>Preconditions</b>	The actor must be logged in.	
<b>Post Conditions</b>	The actor must see all the messages.	
<b>Main Success Scenario</b>	1. The actor must go to the complaints and suggestions page. 2. The actor should be able to view the complaints and suggestions.	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

#### 3.2.57.1 Functional Requirements-57.1

The system should provide a mechanism for the receptionist to mark complaints or suggestions as closed or resolved

### 3.2.57.2 Functional Requirements-57.2

#### 3.2.58 Write Complaints and Suggestions

<b>Use Case ID</b>	58
<b>Description</b>	The actor can write complaints and suggestions.

<b>Actors</b>	User, trainers, nutritionist	
<b>Preconditions</b>	The actor must be logged into the system.	
<b>Post Conditions</b>	The actor must deliver their request to the receptionist through the system.	
<b>Main Success Scenario</b>	<ol style="list-style-type: none"> <li>1. The actor must go to my complaints and suggestions page.</li> <li>2. The actor must click the add button.</li> <li>3. The actor must write their message.</li> <li>4. The actor must press the submit button.</li> <li>5. The system must send the message to the receptionist.</li> </ol>	
<b>Alternative Flow</b>	N/A	
<b>Exceptional Flow</b>	N/A	
<b>Rules</b>	<b>Name of the Business Rule</b>	<b>Result(s)</b>
	N/A	N/A

#### 3.2.58.1 Functional Requirements-58.1

The system should record the complaint or suggestion in the system, associating it with the actor's account

#### 3.2.58.2 Functional Requirements-58.2

### 3.3 Performance Requirements

- Any page should load in less than 0.3 seconds on the system.
- The system should offer real-time communication functionality with a maximum response time of 0.3 seconds, excluding the user's internet response time.
- For search functionality, the system should respond in no more than 0.5 seconds, excluding the user's internet response time.
- The system should populate the main page feed with a maximum response time of 0.4 seconds, excluding the user's internet response time.

- In order to avoid memory problems, system servers should be audited; and flexibility should be provided with cloud services when necessary.
- The system should contain high bandwidth for online calls and should provide minimum data flow for call stability. 3 mbps speed should be sufficient for online calling.

### 3.4 Logical Database Requirements

- ★ The system should store users' data in a safe and redundant manner.
- ★ The system should store and use users' data in accordance with legal regulations.
- ★ The system should keep the stored data with the correct memory types and capacity, aiming for efficiency.
- ★ The system should analyze user data and offer the best solutions for their health.

### 3.5 Design Constraints

- The system should serve as mobile and web in the long run.
- The system should be able to work in harmony with cloud technologies.
- The system should be modular and easy to integrate to stay up to date.
- The system should be designed to keep data in two locations and keep these two locations up to date.
- The system should be planned by paying attention to licensing preferences.
- The system should be based on React and Python language and additionally developed with various technologies.
- System data should be stored and migrated in NoSQL format.

### 3.6 Software System Attributes

#### 3.6.1 Reliability

- ❖ The system should provide recovery from failure with the help of a cloud and local system.
- ❖ The system should keep the data in two different locations and be fault tolerant.
- ❖ The system should be able to meet the requirements in real time for reliable integration and continuity.

- ❖ The system should respond with high accuracy and precision in any calculation or system output, and log any errors that occur.
- ❖ Technologies used in the system should be used with versions with appropriate licenses and long-term support.

### 3.6.2 Availability

- ❖ The system guarantees a minimum availability of 99% to ensure uninterrupted access for users.
- ❖ The system undergoes regular maintenance and updates to address any potential vulnerabilities and improve overall availability.
- ❖ The system incorporates fault-tolerant architecture and distributed resources to maintain availability even in the face of failures or outages.
- ❖ Proactive monitoring and automated recovery procedures are used by the system to reduce downtime and assure ongoing functioning.
- ❖ To increase availability, the system makes use of cloud infrastructure, which enables scalable resources and effective load balancing.

### 3.6.3 Security

- ❖ Data protection is a top priority in the system, with encrypted backups and secure data storage mechanisms to prevent data breaches or loss.
- ❖ In order to maintain security and protect against SQL injection attacks, the system should refrain from executing any command present within user-supplied data that could result in unexpected alterations to the database tables.
- ❖ The system should utilize a common hashing technique to store user password information in a hashed manner.
- ❖ Admin is responsible for opening expert or business accounts to the system. It is aimed to create a safe environment for health. The purpose of this is to establish a secure environment for health.
- ❖ The system does not store payment information and makes careful updates on security vulnerabilities that may arise.

### 3.6.4 Maintainability

- ❖ Regular code reviews and continuous integration practices are implemented to ensure code quality and enhance maintainability.

- ❖ The architecture of the software system places a strong emphasis on clean code, well defined interfaces, and the separation of concerns to reduce the need for future maintenance work.
- ❖ The program needs to stay updated. It should therefore be a goal to frequently make small improvements. The most immediate and least expensive solution to the issue should be provided.

### 3.6.5 Portability

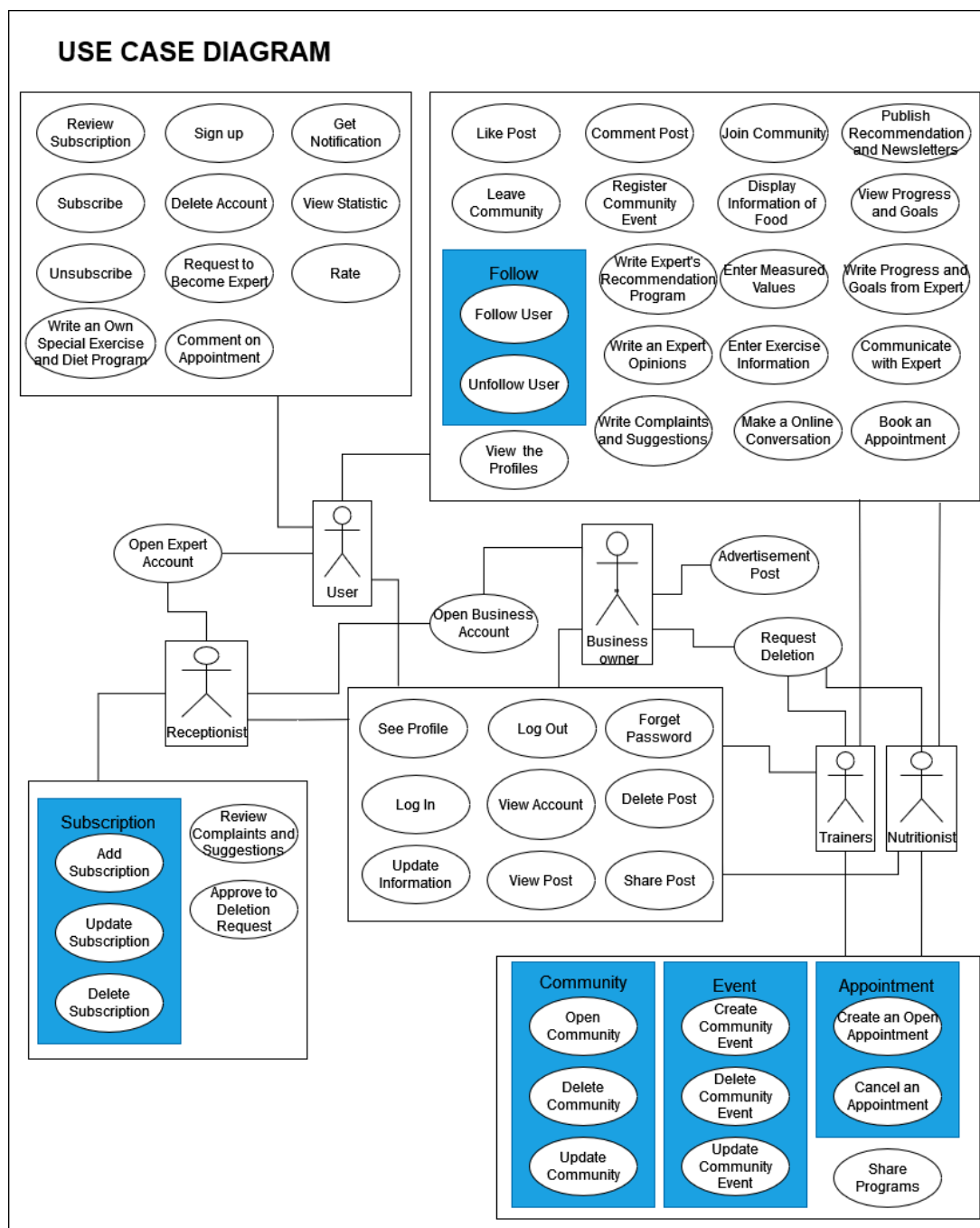
- ❖ Platform-independent configuration and installation procedures for the system make it simple to deploy and set up on a variety of systems.
- ❖ The software system offers abstraction layers and APIs, allowing programmers to create code that is portable and reusable across various settings and platforms.
- ❖ The system complies with open protocols and industry standards, which makes it easy for it to work effectively with other compatible systems.

### 3.6.6 Usability

- ❖ The system shall provide a user manual to ease the usage of the system.
- ❖ Through user-centered design principles, the system ensures a seamless and enjoyable user experience, minimizing the learning curve and maximizing usability.
- ❖ The system places a high value on usability and provides a simple, user-friendly interface that makes it simple for users to navigate and interact with its capabilities.
- ❖ The system should have an intuitive user interface, and after a predetermined period of inactivity, the user should be able to remember how to perform on particular tasks.

## 4. Appendices

### 4.1 Appendix A: Use Case Diagram





## 4.2 Appendix B: Entity Relationship Diagram and Data Dictionary

### 4.2.1 Data Dictionary

Table Name	Keys	Field Name	Data Type	Required	Validation	Description
User	PK	user_id	Numeric(20)	Y		User's system number
		Name	Text(50)	Y	Only Letter	Name of the user
		Birth Date	Date	Y	DD/MM/YYYY Y And after 2005 not accepted	Birthday of the user
		Mail	Text(50)	Y	Email Format	Mail
		Password	Text(50)	Y	Letters, numbers and special char	Password
		Pic	Object	N		Profil picture of the user

		Phone	Numeric(15 )	N	Country code must be and appropriate of this country	Telephone Number
Expert	PK	expert_id	Numeric(20 )	Y		Expert's system number
	FK	user_id	Numeric(20 )	Y		user id in the User table
		Expertise	Numeric(2)	Y		0 is trainer, 1 is nutritionist
Business Owner	PK	business_id	Numeric(20 )	Y		Business's system number
		Business Name	Text(50)	Y		Name of the business
		Mail	Text(50)	Y	Email Format	Mail
		Password	Text(50)	Y	Letters, numbers and special char	Password
		Pic	Object	N		Profil picture of the business account

Expert List	PK	expert_list_id	Numeric(20 )	Y		Expert List ID
	FK	expert_id	Numeric(20 )	Y		ID of the specialist attached to the business
	FK	business_id	Numeric(20 )	Y		ID of the business owner
FollowList	PK	follow_list_id	Numeric(20 )	Y		Follow List ID
	FK	user_id	Numeric(20 )	Y		ID of the following user
	FK	follower_id	Numeric(20 )	Y		ID of the follower user
Receptionist	PK	receptionist_id	Numeric(20 )	Y		Receptionist ID
		Mail	Text(50)	Y	Email Format	Mail
		Password	Text(50)	Y		Password
		Name	Text(50)	Y	Only Letter	Name of Receptionist
Appointment	PK	appointment_id	Numeric(20 )	Y		Appointment ID
	FK	expert_id	Numeric(20 )	Y		expert id in the Expert table

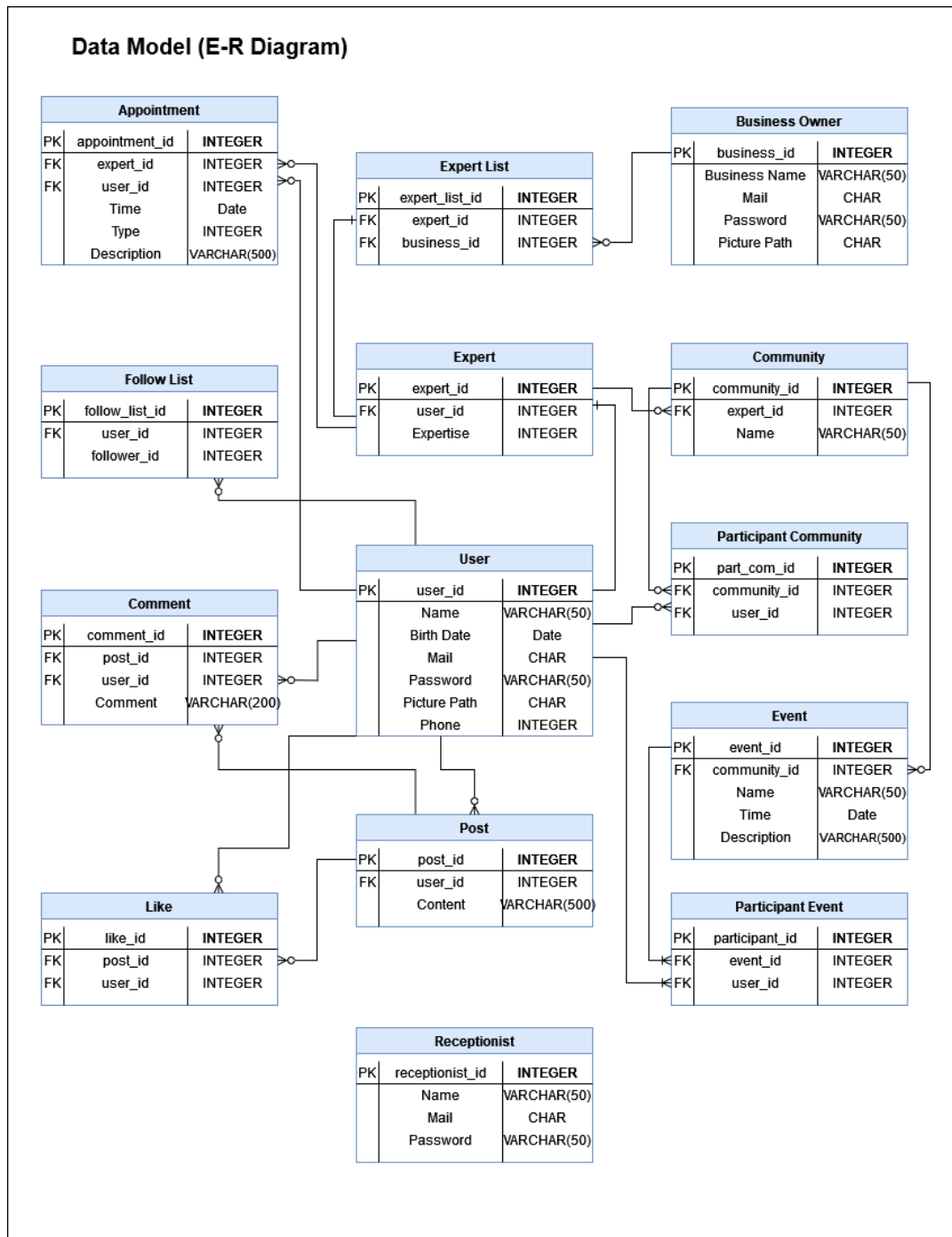
	FK	user_id	Numeric(20 )	Y		user id in the User table
		Time	Date	N	DD/MM/YYYY Y HH:MM:MM	Time of the appointment
		Type	Int	Y		0 is online, 1 is face-to-face
		Description	Text(500)	N		Appointment information
Community	PK	community_i d	Numeric(20 )	Y		Community ID
	FK	expert_id	Numeric(20 )	Y		expert id in the Expert table
		Name	Text(50)	Y	Only Letter	Community Title
ParticipantC ommunity	PK	part_com_id	Numeric(20 )	Y		Participant Community ID
	FK	community_i d	Numeric(20 )	Y		Joined community ID
	FK	user_id	Numeric(20 )	Y		user id in the User table
	PK	event_id	Numeric(20 )	Y		Event ID

Event

	FK	community_id	Numeric(20)	Y		ID of the community that the event is connected to
		Name	Text(50)	N	Only Letter	Event Title
		Time	Date	N	DD/MM/YYYY HH:MM:MM	Date and hour of the event
		Description	Text(500)	N		Text of the event
ParticipantEvent	PK	participant_id	Numeric(20)	Y		Participant ID
	FK	event_id	Numeric(20)	Y		ID of the event to be attended
	FK	user_id	Numeric(20)	Y		ID of the user participating in the event
Post	PK	post_id	Numeric(20)	Y		Post ID
	FK	user_id	Numeric(20)	Y		ID of the user who shared the post
		Content	Text(500)	N		Text of the content

Comment	PK	comment_id	Numeric(20 )	Y		Comment ID
	FK	post_id	Numeric(20 )	Y		ID of the commented post
	FK	user_id	Numeric(20 )	Y		ID of the commenter
		Comment	Text(200)	N		Text of the comment
Like	PK	like_id	Numeric(20 )	Y		Like ID
	FK	post_id	Numeric(20 )	Y		ID of the liked post
	FK	user_id	Numeric(20 )	Y		ID of the user who liked it

## 4.2.2 ER Diagram



### 4.3 Appendix C: Process Models of the Designed To-be System based on BPMN.

- You can reach our To-Be System Process Model by clicking on this link:  
<https://drive.google.com/drive/folders/1iSJQpTuoit6OFaSm8JPsvQ-qnWfFSHTN?usp=sharing>