URS

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Agreements with client

We have agreed to create the project and its requirements:

• The language that we will use for the desktop application is C# with windows form.

• For the web page we will use combination of HTML, CSS, Bootstrap and optionally JS.

• For the database we are to use MSSQL with the Fontys database.

• There is an important deadline on 03.03.2023 when we must present the progress.

• The total time that we are given is 16 working weeks.

Functional requirements

The aim of the project is to create the software application and website so that the clients can prepare and execute their exercises.

Functional requirements for Windows Forms App:

1. Manager can manage the exercises.
2. The application has authentication and authorization.
3. Trainer can manage exercises.

4. Manager can manage the comments.
5. Manager can manage the registered accounts.
6. Customers do not have access to the application.

Functional requirements for the Website:

Note: Customer – no account; Member – customer with an account

7. The website has authentication and authorization.
8. The website provides content about exercises.
9. The website provides access to a BMI/TDEE calculator.
10. Manager can manage the information displayed on the website.
11. Members can schedule appointments with trainers.
12. Members can make comments on the website.
13. Accounts have private/personal page.
14. Website can be used by Customers without the membership features.

Use cases

Use case UC01: Create a new exercise.

Actor: Manager/Trainer

Pre-condition: Manager/Trainer must be logged in.

Main Success Scenario:

UC01-1. Actor requests to create a new exercise.

UC01-2. System requests exercise details.

UC01-3. Actor fills in the requested data and submits it.

UC01-4. System shows a confirmation, that the exercise is created.

Extensions:

UC01-4a: Incorrect data is provided.

UC01-.1: System displays an error message.

UC01-.2: Return to MSS step UC01-2

Use case UC02: Edit exercise details.

Actor: Manager/Trainer

Pre-condition: Manager/Trainer must be logged in.

Main Success Scenario:

UC02-1. Actor selects an exercise.

UC02-2. System requests the new characteristics.

UC02-3. Actor fills in the new data.

UC02-3. System shows a confirmation, that the exercise has been changed.

Extensions:

UC02-3a: Incorrect data is provided.

UC02-.1: System displays an error message.

UC02-.2: Return to MSS step UC02-2.

Use case UC03: Delete an exercise.

Actor: Manager/Trainer

Pre-condition: Manager/Trainer must be logged in.

Main Success Scenario:

UC03-1. Actor selects an exercise and deletes it.

UC03-2. System shows a confirmation, that the exercise is deleted.

Use case UC04: Search for an exercise.

Actor: Manager/Trainer

Pre-condition: Manager/Trainer must be logged in.

Main Success Scenario:

UC04-1. Actor provides a search pattern.

UC04-2. System shows the exercises matching the pattern.

Extensions:

UC04-2a: Incorrect data is provided.

UC04-.1: System displays an error message.

UC04-.2: Return to MSS step UC04-1.

Use case UC05: Search for an exercise on the website.

Actor: User (anyone)

Pre-condition: User is on the "Exercise" page.

Main Success Scenario:

UC05-1. Actor provides a search pattern.

UC05-2. System shows the exercises matching the pattern.

Use case UC06: Use BMI/TDEE.

Actor: User (Member/Non-member)

Pre-condition: User is on the "BMI/TDEE" page.

Main Success Scenario:

UC06-1. Actor inputs their data and submits it.

UC06-2. System calculates and shows the result.

Extensions:

UC06-2a: Incorrect data is provided.

UC06-.1: System displays a message.

UC06-.2: Return to UC06-1.

Use case UC07: Leave a comment/review on exercise.

Actor: User (Member)

Pre-condition: Member is logged in and is on the "Exercise" page.

Main Success Scenario:

UC07-1. Actor selects an exercise to leave a review.

UC07-2. System requests data.

 UC07-3. Actor inputs their data and submits it.

UC07-4. System displays a confirmation message and publishes the comment.

Extensions:

UC07-4a: Incorrect data.

UC07-.1: System displays an error message.

UC07-.2: Return to UC07-2.

Use case UC08: Login as a member.

Actor: User (Member)

Pre-condition: User is on the "MyAccount" page.

Main Success Scenario:

UC08-1. Actor inputs their data and submits it.

UC08-2. System redirects to their personal page.

Extensions:

UC08-2a: Incorrect data provided.

UC08-.1: System displays a message.

UC08-.2: Return to UC08-1.

Use case UC09: Login as a manager.

Actor: User (Manager)

Pre-condition: User is on the "MyAccount" page.

Main Success Scenario:

UC09-1. Actor inputs their data and submits it.

UC09-2. System redirects to their personal page.

Extensions:

UC09-2a: Incorrect data provided.

UC09-.1: System displays a message.

UC09-.2: Return to UC09-1.

Use case UC10: See exercise details.

Actor: User (anyone)

Pre-condition: User is on the "Exercise" page.

Main Success Scenario:

UC10-1. Actor selects an exercise to preview.

UC10-2. System redirects to the exercise details page.

Use case UC11: Create a new cardio.

Actor: Manager/Trainer

Pre-condition: Manager/Trainer must be logged in.

Main Success Scenario:

UC011-1. Actor fills in the requested data and submits it.

UC011-2. System shows a confirmation, that the cardio is created.

Extensions:

UC11-2a: Incorrect data is provided.

UC11-.1: System displays an error message.

UC11-.2: Return to MSS step UC11-1.

Use case UC12: Edit cardio details.

Actor: Manager/Trainer

Pre-condition: Manager/Trainer must be logged in.

Main Success Scenario:

UC12-1. Actor selects a cardio.

UC12-2. System requests for the new data.

UC12-3. Actor fills in and submits.

UC12-4. System shows a confirmation, that the cardio is changed.

Extensions:

UC12-4a: Incorrect data is provided.

UC12-.1: System displays an error message.

UC12-.2: Return to MSS step UC12-2.

Use case UC13: Delete a cardio.

Actor: Manager/Trainer

Pre-condition: Manager/Trainer must be logged in.

Main Success Scenario:

UC13-1. Actor selects cardio and deletes it.

UC13-2. System shows a confirmation, that the cardio is deleted.

Use case UC14: Search for a cardio.

Actor: Manager/Trainer

Pre-condition: Manager/Trainer must be logged in.

Main Success Scenario:

UC14-1. Actor provides a search pattern.

UC14-2. System shows the cardio's related to the data.

Extensions:

UC14-2a: Incorrect data is provided.

UC14-.1: System displays an error message.

UC14-.2: Return to MSS step UC14-1.

Use case UC15: See cardio details on the website.

Actor: User (anyone)

Pre-condition: User is on the "Cardio" page.

Main Success Scenario:

UC15-1. Actor selects a cardio to preview.

UC15-2. System redirects to the cardio details page.

Use case UC16: Create a new account.

Actor: Customer

Pre-condition: Customer is on the "Create Account" page.

Main Success Scenario:

UC016-1. Actor fills in the requested data and submits it.

UC016-2. System shows a confirmation, that the account has been created.

Extensions:

UC16-2a: Incorrect data is provided.

UC16-.1: System displays an error message.

UC16-.2: Return to MSS step UC16-1

Use case UC17: Edit user details.

Actor: Member

Pre-condition: Member must be logged in and on their "Personal page".

Main Success Scenario:

UC17-1. Actor requests to change profile data.

UC17-2. System requests details.

UC17-3. Actor fills in and submits.

UC17-4. System shows a confirmation, that the account has been changed.

Extensions:

UC17-4a: Incorrect data is provided.

UC17-.1: System displays an error message.

UC17-.2: Return to MSS step UC17-3.

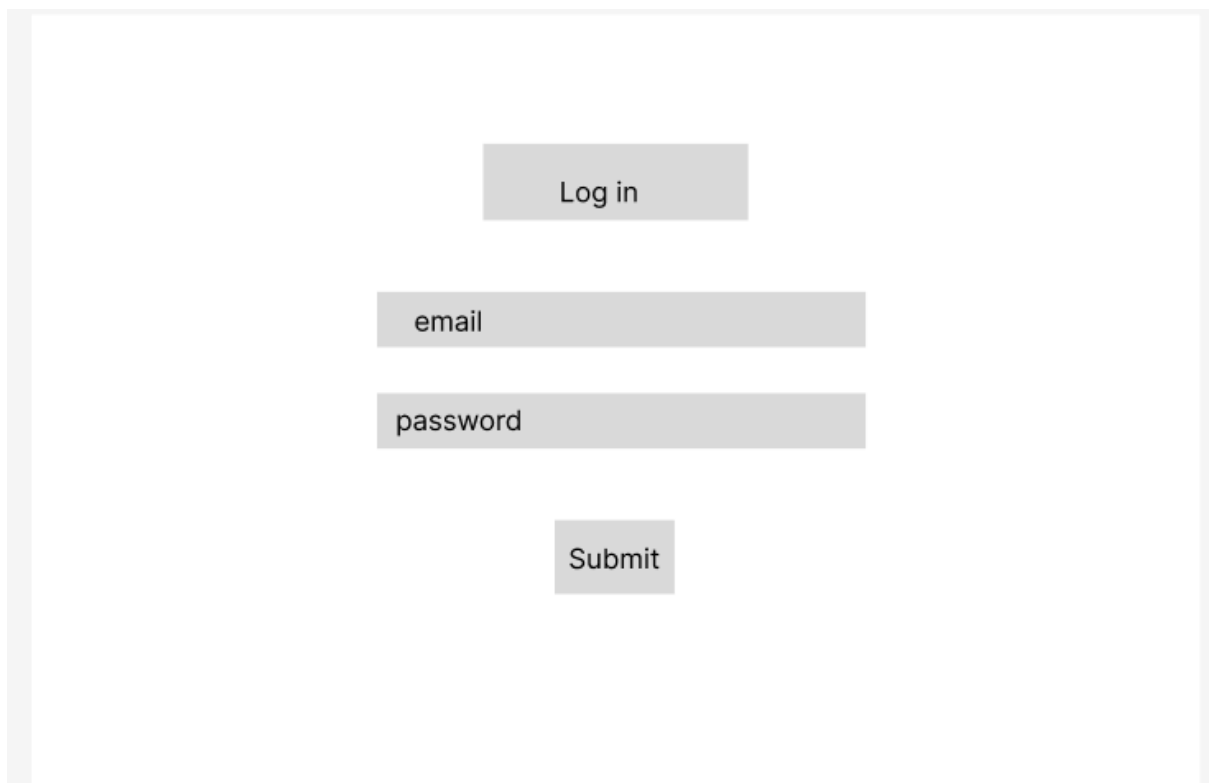**Use case UC18: Delete account.**

Actor: Member

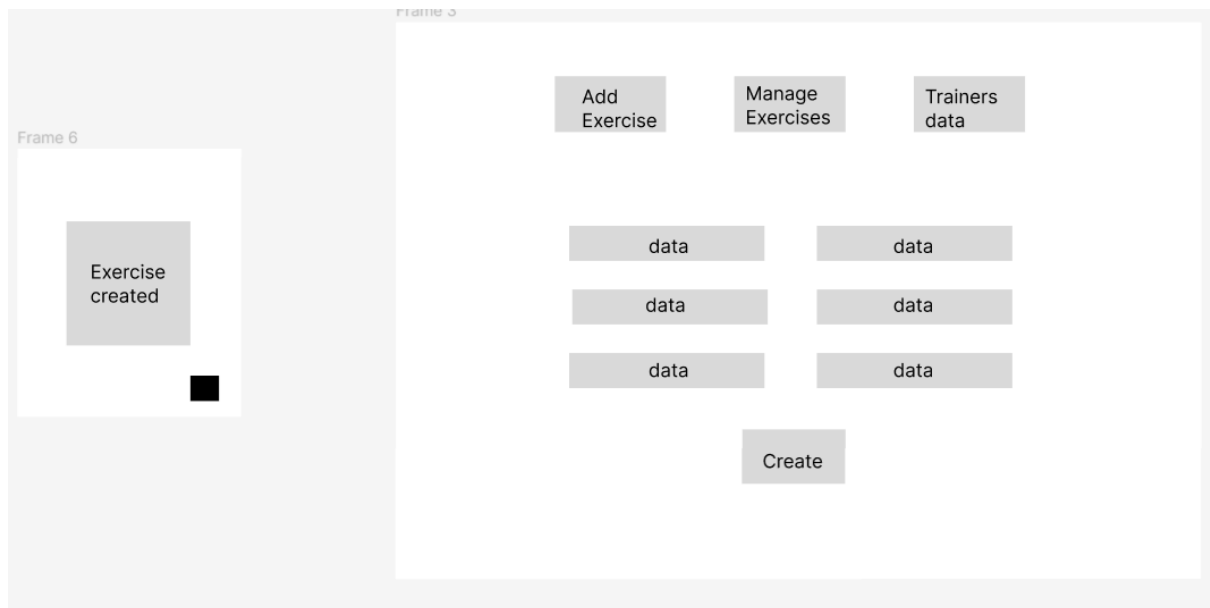Pre-condition: Member must be logged in and on their "Personal page".

Main Success Scenario:

UC18-1. Actor requests to delete their account.

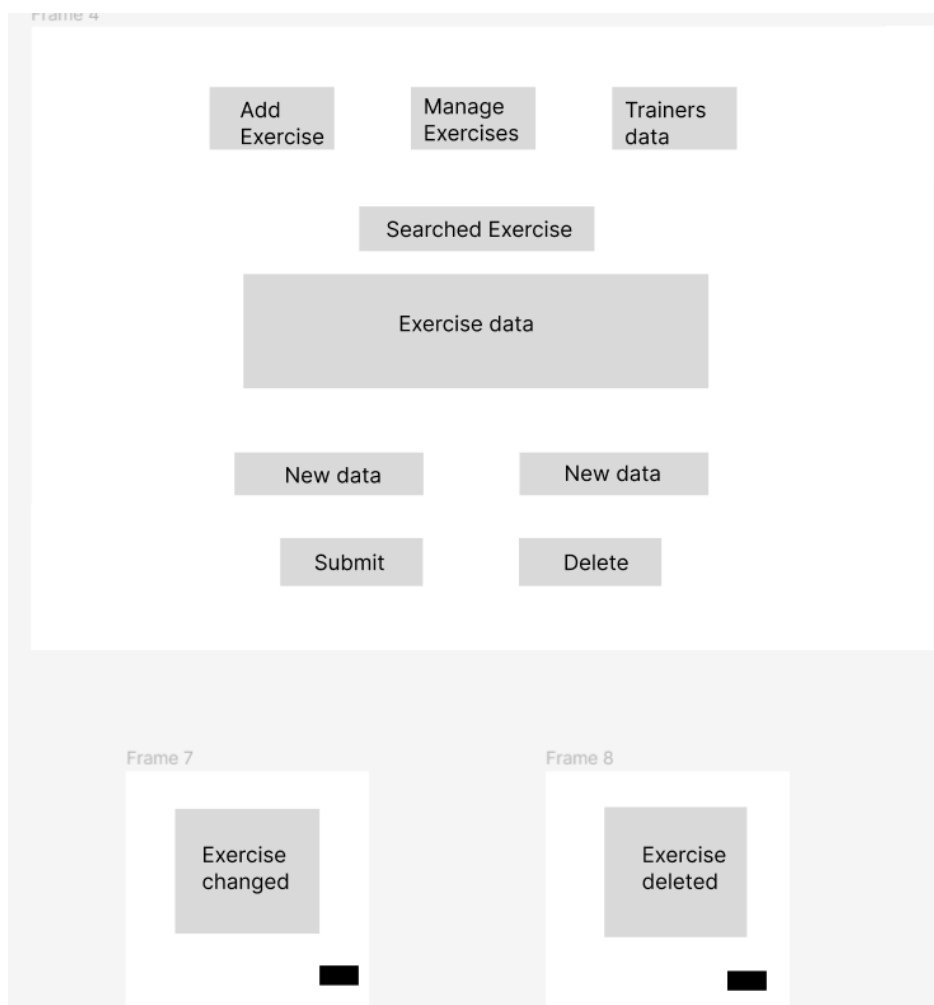UC18-2. System shows a confirmation, that the account has been deleted.

GUI (Windows Forms App)

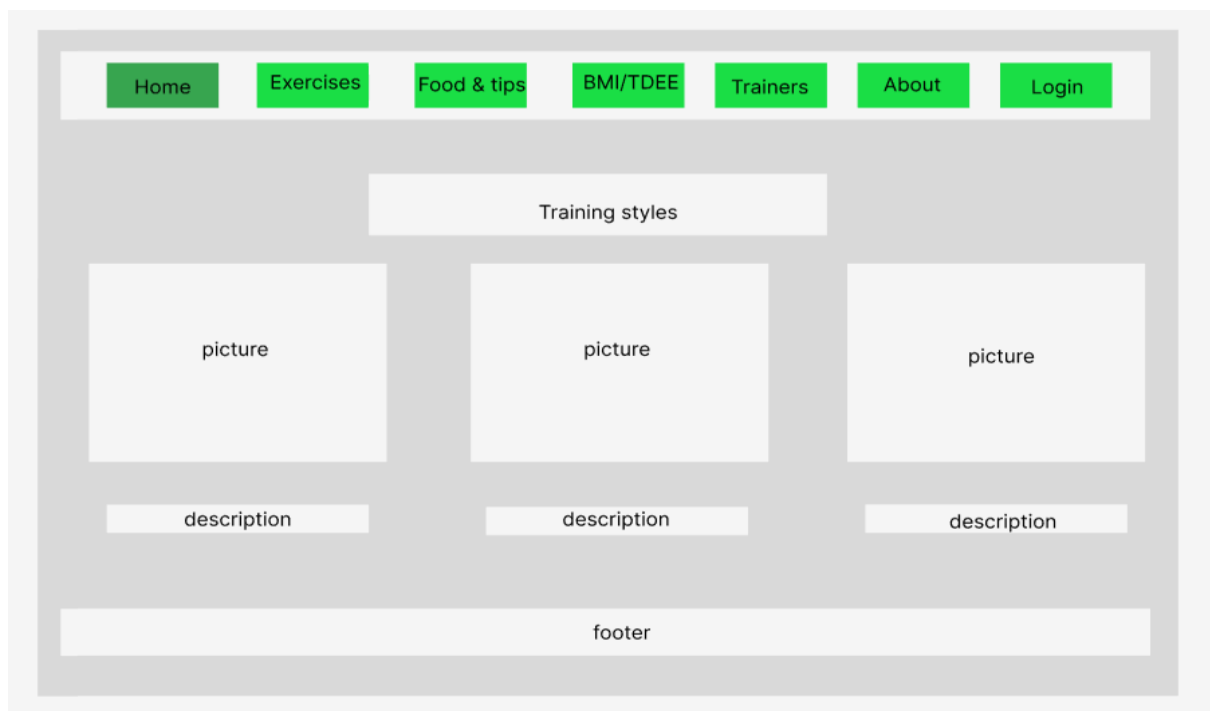This is the authentication form. After the account data is filled in you will have access to the application.

Frame 6

Add Exercise

Manage Exercises

Trainers data

Exercise created

data

data

data

data

data

data

Create

This is the main part of the application where the exercises are being managed.

Frame 4

Add Exercise

Manage Exercises

Trainers data

Searched Exercise

Exercise data

New data

New data

Submit

Delete

Frame 7

Frame 8

Exercise changed

Exercise deleted

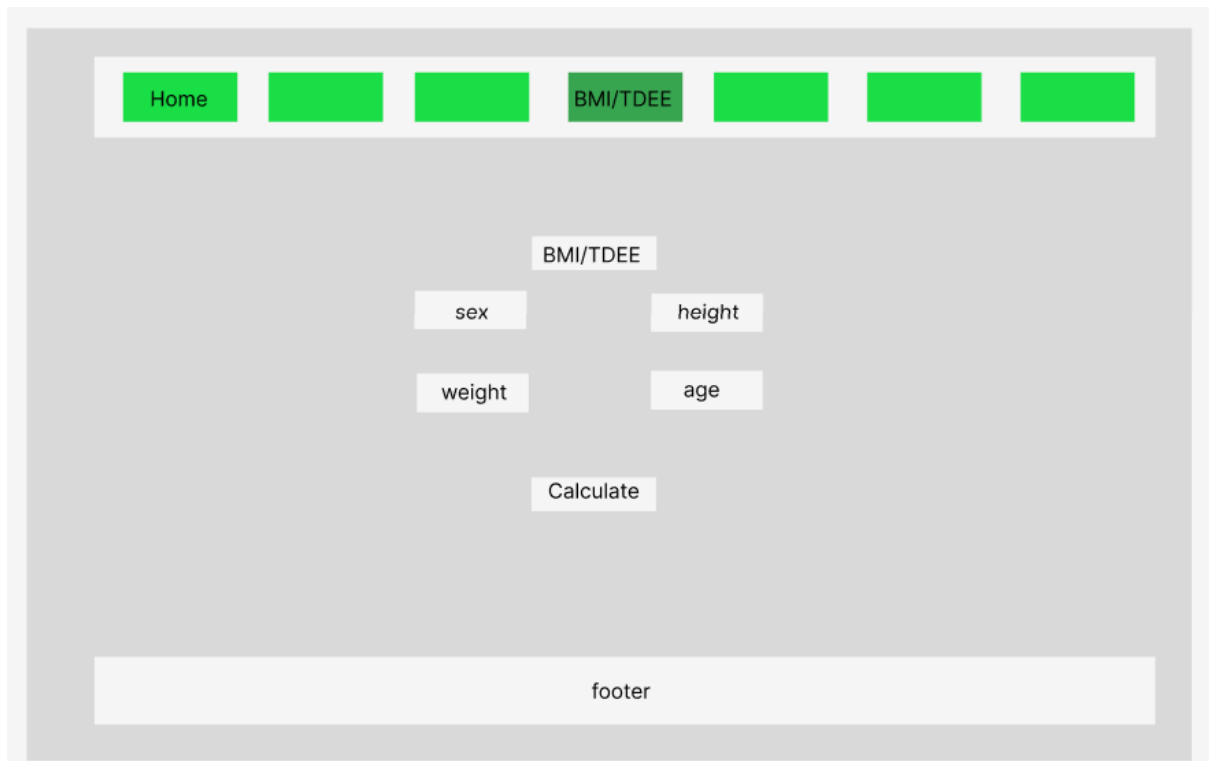Here exercises can be created or deleted.
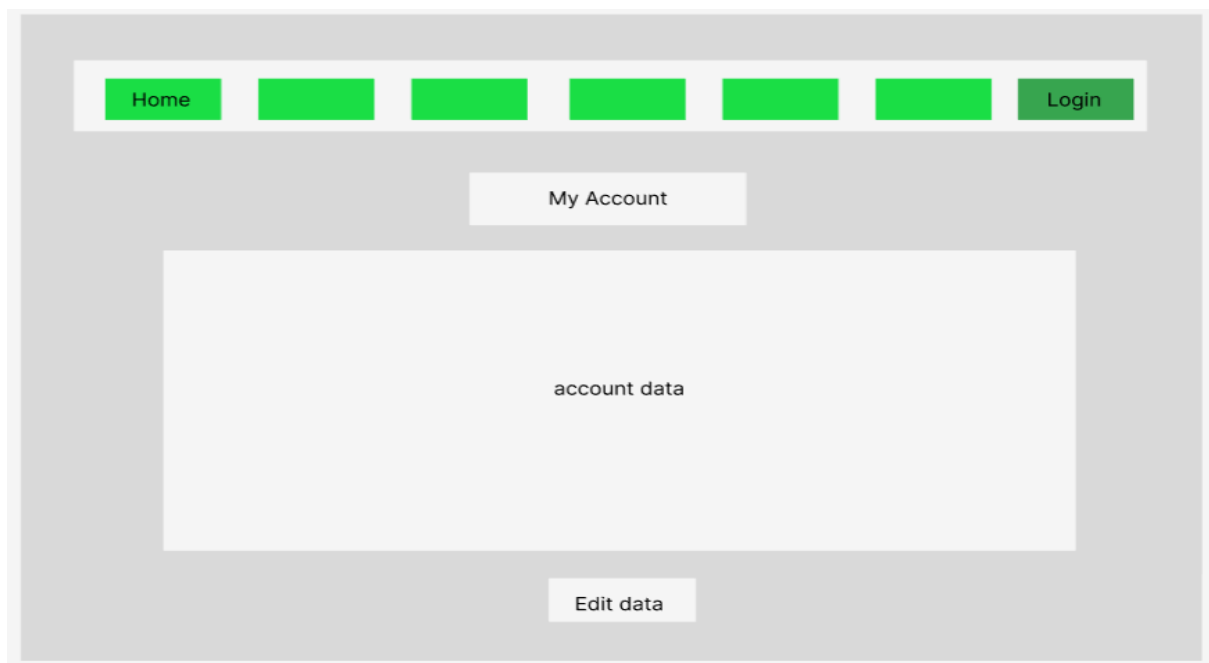
Website wireframe

This is the "Home" page where users can see information about the training styles.
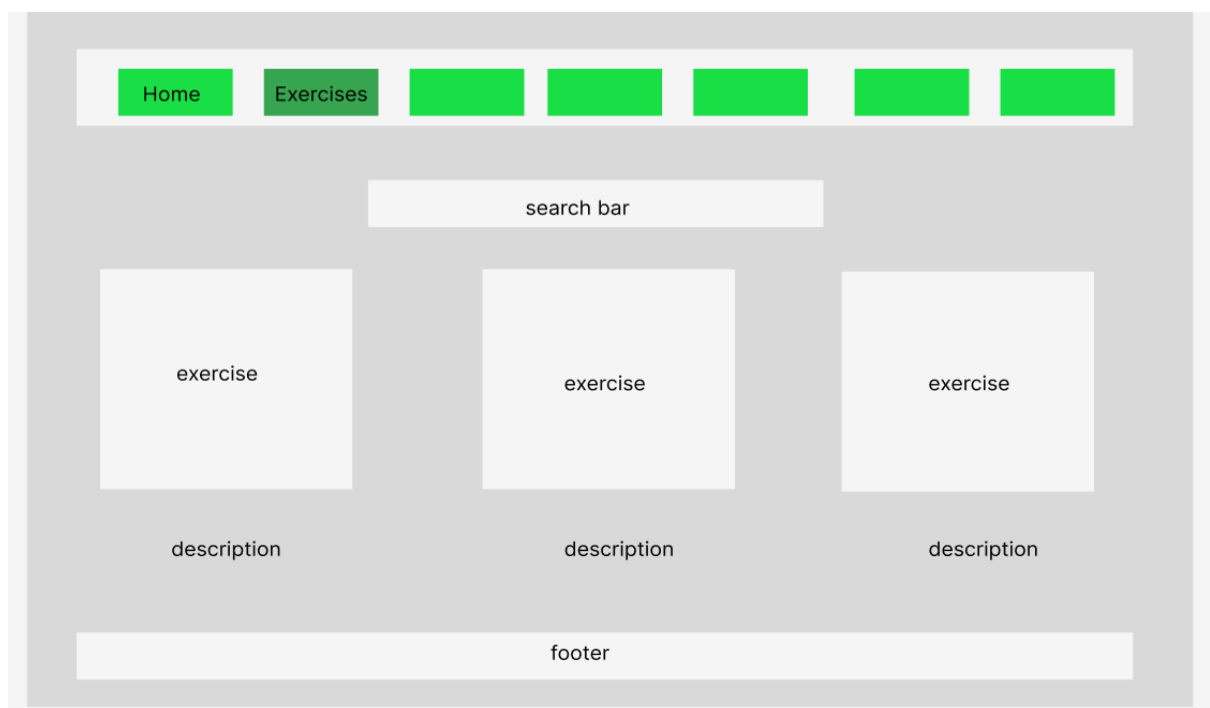
In the "Exercise" page will be displayed a few exercises with a picture and their name only.

On the "BMI/TDEE" page users can check their individual results based on the
provided data.

The "My Account" page which displays data related to the account.