Project Report

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# Summary

## Introduction

## Methods

The development of the program is distributed in multiple parts. The first part starts with analysis where requirements are created that are used for the product backlog for Scrum. After that, in each sprint there is analysis, design, implementation, testing and deployment phase.

## Analysis

In this chapter the analysis of the customers needs is shown in short relevant diagrams. Diagrams like use case diagram, domain model, etc. is created using Astah software. All the diagrams are available in the appendix ().

## Actors

Different features and levels of access are defined by the user roles or actors. Therefore, it is crucial to know the role of each actor.

**Member:** The member actor role is the most crucial actor in the program and other actors are built around the member. Main features that the actor have is seeing and creating workouts ().

**Trainer:** Trainers are verified users that have the same access to features as a member actor and the following extra features: create exercises, assign workouts ().

**Admin:** Admin actor has administrative access to the program, and he has access to all the features the program has.

## Requirements

When analysing requirements, they are placed in the list according to importance to ensure that the product backlog for Scrum is correct and can be followed in an easier way.

**Functional requirements:**

1. As a member I want to create an account, so that I can use the app.
2. As a member I want to login, so that I can access the system.
3. As an admin I want to edit privilege for a user, so that I can have trainers.
4. As a trainer I want to create exercises, so that they can be used in workouts.
5. As a member I want to see exercises, so that I can use them in workouts.
6. As a member I want to see workouts, so that I can view them and select one.
7. As a member I want to start workout, so that I can follow it.
8. As a trainer I want to create workouts, so that other members can use them.
9. As a member I want to create personalized workouts, so that I can use them.
10. As a member I want to edit my information, so that my profile is up to date.
11. As a member I want to see how many calories I burnt, so that I can follow my dietary plans.
12. As a trainer I want to assign workouts, so that my clients can follow them.
13. As an admin I want to manage exercises, so that I can remove duplicates or invalid exercises.
14. As an admin I want to remove users, so that I can remove invalid users.

## Use cases

The figure 1 shows the use case diagram.

Diagram

Description automatically generated

Figure 1 Use case diagram

A brief summery for each use case is provided below.

()

## Domain Model

Diagram

Description automatically generated

Figure 2 Domain Model

In figure 2 the domain model shows all entities and their interactions in the system.

()

## Results/findings and Discussion

## Conclusion

## List of references

# Appendices