

# Syddansk Universitet

## Coach Freelancing Platform

Faculty of Engineering

BSc in Software Engineering

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# 1 Introduction

## 1.1 What is the issue we are trying to solve?

More and more fitness influencers are trying to increase their income and reach by offering one-on-one coaching often accompanied by custom training and diet plans. More generally, as consequence of the COVID-19 pandemic, an ever increasing number of traditional fitness coaches started to offer their coaching online as well. We can say from first hand experience that the resulting coaching can become quite messy independent from the coach. The user experience of the current influencer coaching is really bad, members of our team had first hand experience of how terrible it can be; it is very fragmented: communication channels are switched constantly, training and diet plans are hosted on seemingly random platforms and since it is all internet based, establishing initial trust / contact can result challenging. Our guess is that the GDPR is hardly respected. That's why we want to offer a unified solution for influencer and fitness coaching to remediate to all these problems.

## 1.2 Is LinkedGym suitable for the market

Based on our limited market analysis and other business analysis tools that we applied throughout the project we can confidently say that we do believe that LinkedGym could be a product which consumers will have interest in, if launched. It won't grow by itself and will probably need to rely on influencer deals and need a decent marketing budget after launch which could be a limiting factor to its uptake.

### **1.3 Could we produce LinkedGym**

In the scenario we would find ourselves in, if we were to concretely develop this product, most likely that the company developing it would be a startup with no- to very limited funding. With the abilities and knowledge we currently have, the successful development and deployment of LinkedGym would be very difficult, potentially possible if we were motivated enough. It is to be noted that our abilities to develop LinkedGym, would probably be sufficient after the completion of the third semester (distributed interactive software systems) in our education.

### **1.4 What is the basis of the project**

The only actual requirement for this project was that it had to have some kind of database as it was needed for the successful completion of all exercises given. Various ideas surfaced during the brainstorming phase, and LinkedGym was not even our first choice. Ultimately LinkedGym turned out to be a better fit for two reasons: "founder fit" as all of the group members are fitness enthusiasts which amounts to a decent understanding of the current state of the fitness industry and it provided a better playing ground for the various software engineering exercises.

### **1.5 Outline of the project**

This portfolio and the project itself is the sum of all activities assigned to us during the software engineering course. As already mentioned, the only substantive requirement was that our product would have the need for a database. The main objective

of this project is to be a learning experience in which we can practically apply tools, frameworks and concepts acquired during the lectures. To provide a brief overview of the project we started with clearly defining what our product would be and carried on analysing its goals and risks. A "mini" design sprint was conducted; it entailed crazy 8's, defining personas, user journeys and creating a prototype to conduct user testing. We continued with laying out all of our features and started doing estimations and prioritizations, followed by various UML models and diagrams. Finally we switched to the more business side of things with tools such as the SWOT analysis, business model, value proposition canvas and similar.

## **1.6 Business model of LinkedGym**

The primary source of revenue of LinkedGym will come from transactional commissions, where the platform takes a percentage of every transaction made through our platform. Furthermore we plan to have additional revenue streams by letting sporting brands promote their products on our platform. The business model will be discussed in further detail in chapter 5.

## **1.7 Product outline**

LynkedGym is an online coaching platform that offer a streamlined experienced for coaches and trainees alike. Unlike self branded solutions and platforms LinkedGym unifies everything involved for a quality fitness coaching experience, while still providing the possibility to advance ones personal brand. Our solution offers a simple and secure way to establish communication and subsequently to carry it on in a in-

tegrated platform. LinkedGym provides a straightforward way to create and assign custom plans, track progress and facilitate the whole coaching experience.

## 1.8 Competing products

Based on our limited market research we did not find a platform which would be a direct competitor to LinkedGym. There are similar apps that offer ways to track progress and provide custom workout plans, made among others by influencers but none offer the possibility to have direct coaching. Alternatively, there are many self branded coaching websites which re-direct a potential customer to instagram direct messages or similar social messaging platforms.

As we did not find any directly competing product, it may mean one of three things: There is a market to be captured and our platform solves a real need, or there is no need for such a product, hence the lack of a similar product. Ultimately it could be that our googling skills need some improvement, reason why we did not find anything similar.

## 1.9 Goals and risk of LinkedGym

We defined goals and risks of LinkedGym by answering a list of predetermined questions that helped us to elucidate them.

### **What is the best thing that could happen?**

- Multiple fitness influencers with a moderate amount of traction switch to our platform

## **What do we need to do to succeed?**

- We need to attract influencers as for them to start using our platform
- We need to provide a straightforward and simple user experience
- We need to streamline the whole coaching process

## **What is the worst to happen?**

- We do not attract neither influencers nor coaches
- No one is interested in using our platform, there is no actual need for it

## **If we fail...**

- We did not provide enough differentiation relatively to similar platforms
- We did not manage to attract users
- The profit margins of the platform turn out to be too low to be a viable product

## **What are the possible pitfalls**

- We overcomplicate the platform
- The scope is too big for us to complete it

## **2 Analysis**

As a group our task was to create a software product to work on. Our aim was to find a common interest, so we would all have the same level of enthusiasm about the project. A few hours of brainstorming have led us to decide on a fitness application. The product is an online coaching application. The target audience can be divided into two categories: coaches and trainees. The application would function similar to LinkedIn where the coaches would have to create a portfolio in order to attract trainees or customers. They can list their degree, training routine, specialties and photos. The trainees would decide based on this portfolio page to contact the coaches. This product is different from other applications as it offers an opportunity to receive 1 on 1 training for a below market price. Moreover, the coaches would have time to focus on their clients closely as they would be able to take on only a few customers at the same time. We created this product to people who want to improve their health by exercising while staying in their budget. The target audience is wide as the coaches can have various background and take on trainees with different goals and needs. Starting from people who want to gain weight or lose weight all the way to people who want to improve their mobility classifies as our target audience because the coaches who sign up provide the application with variety. The opportunity of the product is the cost efficiency. Personal training has become an expensive service. The goal of this application is to have affordable coaches. While personal trainers only check in with you when you are training together, the coaches in our application can be available for your need at any time of the day and help you out with nutritional

questions as well.

## 2.1 User Journey Maps

In order to make sure that our application is easy to use we had to create user journey maps. When we created the app, we realized that our user can be divided into two groups, coaches and trainees. The two types of user are closely connected and when one of them does an action it will have an effect on the other user. The user journey maps are presented in the picture below.

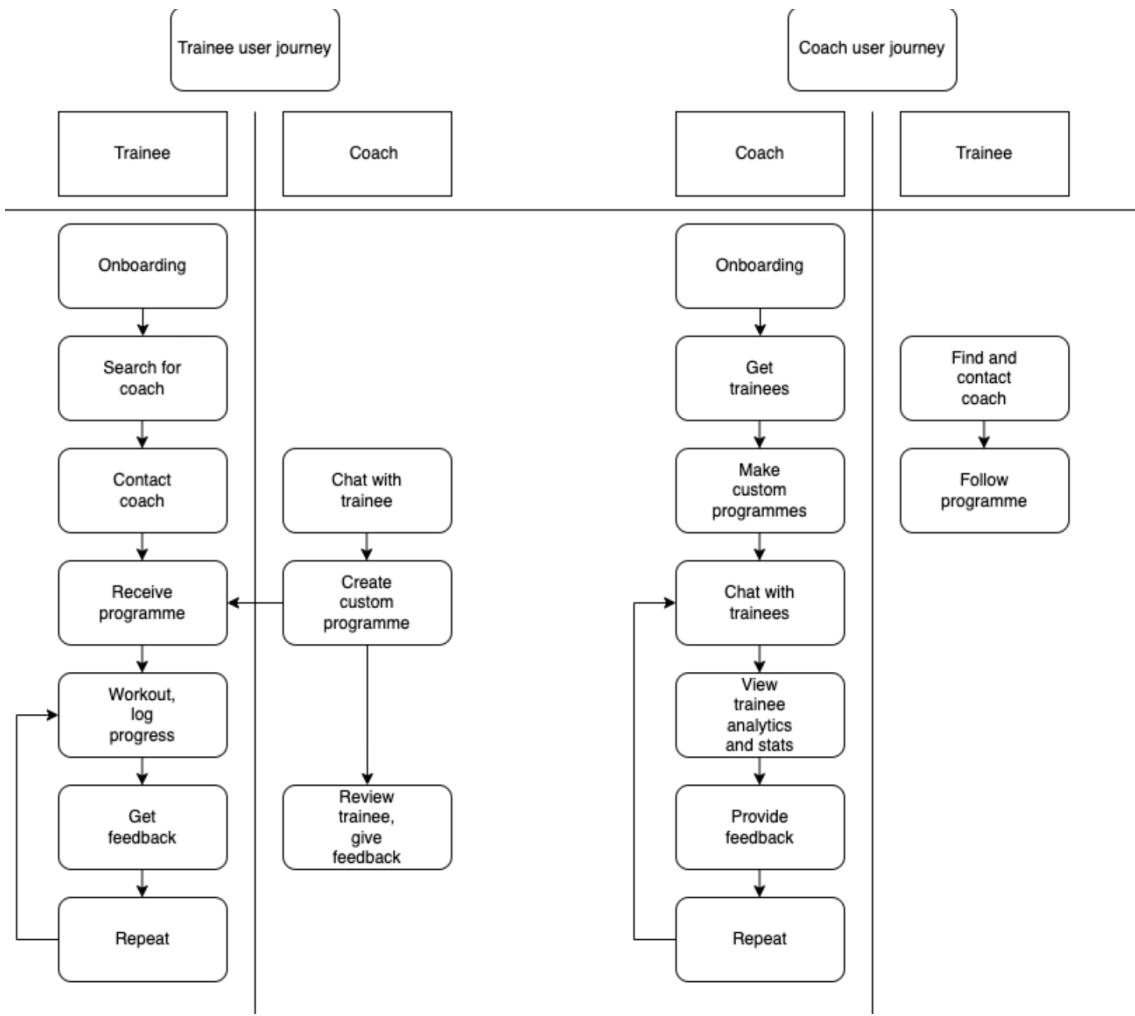


Figure 1: User Journey Maps

## 2.2 Personas

We had to create personas to make sure people with different goals and backgrounds could benefit from using our application. Diversity was our main goal while coming up with the personas. They were created using the software called Miro where each

persona has their own brief description, skills, main goals, personality, interest, gains and pains listed. We have created 5 personas in total.



Figure 2: Benjamin Lewis

Ethan Parker Persona Map

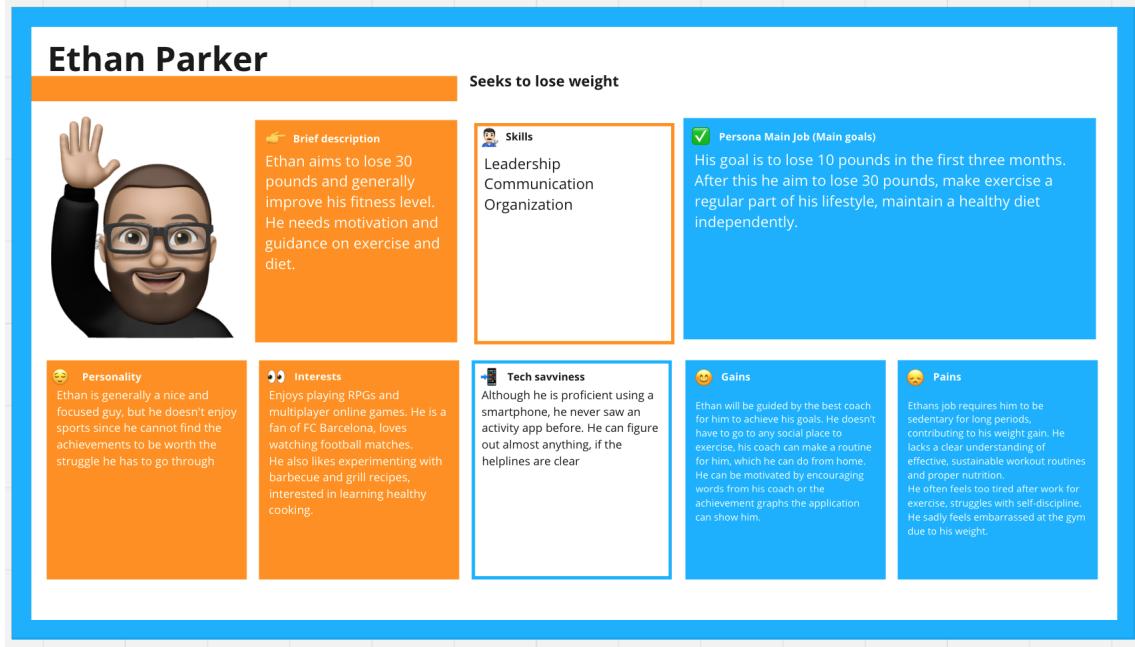


Figure 3: Ethan Parker

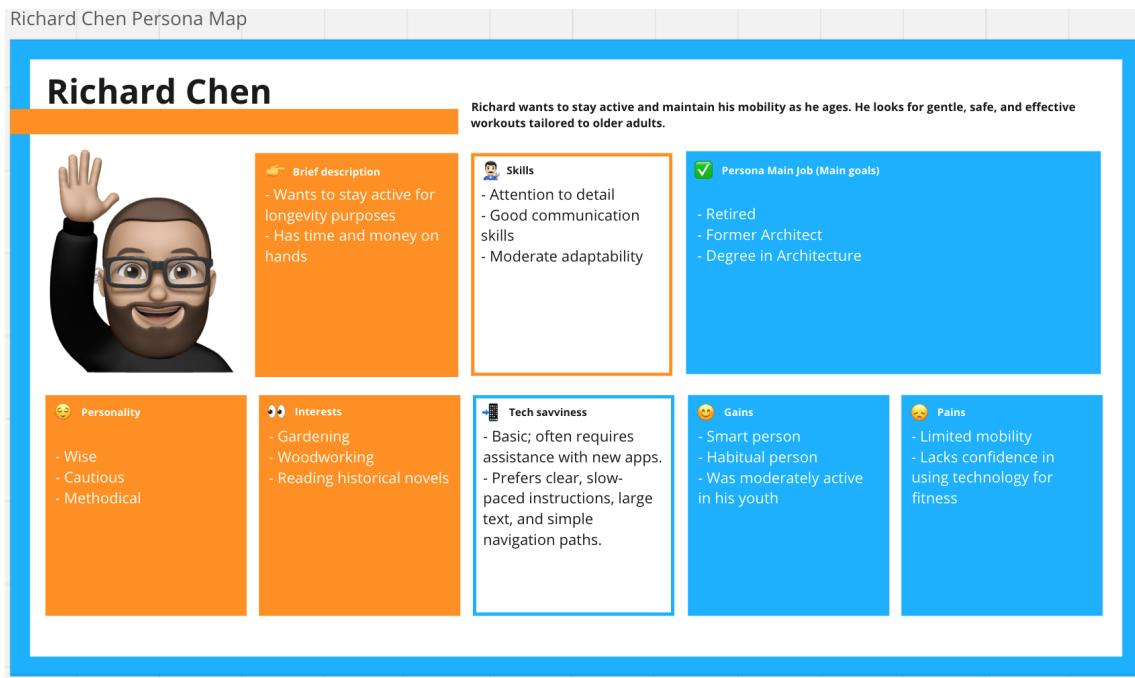


Figure 4: Richard Chen

Sofia Ramirez Persona Map

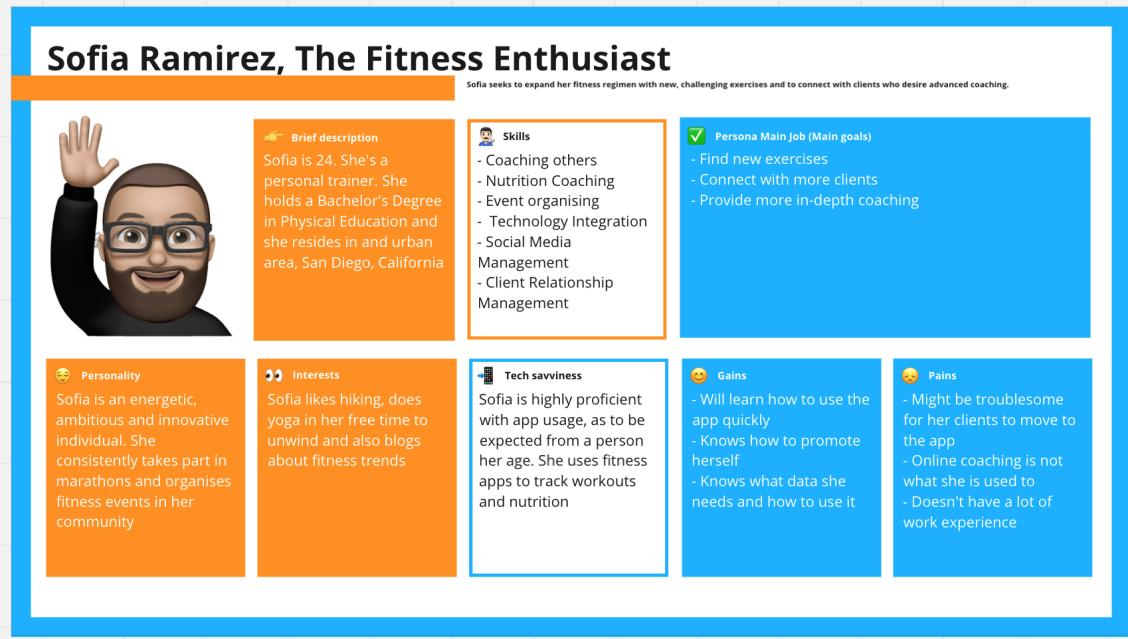


Figure 5: Sofia Ramirez

## Sarah Mass Persona Map



Figure 6: Sarah Mass

### 2.3 Functional and non-functional requirements

Functional requirements define the specific behaviours of a system. These requirements describe what the system should do in order to meet the user's needs. Our application includes user authentication. There is a separate one for coaches and trainees but the system behind it is the same. In the application we have to include a payment processor as the coaches will likely provide subscription-based coaching. Through this system we will enable users to place, track and cancel orders. When creating a profile, we need to store the personal information in a database which can be updated by the user in the setting part of the application. In the applica-

tion the trainees can search for preferred coaches therefore, the system allows users to search for coaches by various criteria, such as name, category and price range. Non-functional requirements specify the quality attributes of a system. These requirements describe how the system performs certain functions such as usability, performance, reliability and security. The system should be user-friendly, allowing new users to find what they require in the app without extensive explanation. The system should also be able to handle several simultaneous users without performance issues while being available most of the time, even during software updates. The application has to be well encrypted to protect user data.

## **3 Methodology**

For the development of our Coach Freelancing Platform, we wanted to choose the software development process that would suit the needs and time constraints of this project. To achieve this, we dedicated an entire meeting to discuss each process we have learned about and list their pros and cons and arrived at the conclusion that we wanted to adopt an agile methodology, since they are the best suited for Software Development. Agile utilize iterative and incremental development. It promotes flexible responses to change and aims to deliver working software frequently, with a preference for shorter time cycles. In software development requirements can change rapidly. Agile is particularly effective, because the project's direction can be changed quickly, but it requires a high level of coordination and communication among team members. During our Software Engineering lectures we learned about many methodologies, here we will go through the most notable ones and argue why we chose to work with the agile framework: Scrum.

### **3.1 Waterfall Model:**

This model is one of the earliest methodologies in engineering, it was and still is really popular outside of Software Engineering. It is based on linear sequential flow, meaning that any phase in the development process begins only after the previous one has been completed. The model is simple and easy to understand and use, which makes it suitable for projects with well-defined requirements that are unlikely to change, because after the report is done, and the project is planned out ahead,

we would have to work according to that plan, even if user-requirements have not been correctly anticipated or have changed. The changing requirements typical in Software Development made this methodology unsuitable for us.

### **3.2 Spiral Model:**

The Spiral model combines iterative development with the systematic aspects of the Waterfall model. It allows for incremental refinements through each iteration or spiral. Each spiral starts with a set of goals and ends with the client reviewing the progress, which helps in early detection and reduction of risks. This model is particularly useful for large, complex, and high-risk projects. However, it can be more costly than other methods due to the ongoing evaluation and risk analysis and additionally, the model's complexity necessitates strict adherence to protocols and increased documentation.

### **3.3 V-Model:**

The V-Model, or Validation and Verification model, provides a more structured approach which entails a lengthier planning period analogous to the waterfall method of software development. The planning of it must be very reliable as all the successive development phases almost exclusively rely on the previous planning phase. This model is often used in safety critical systems, because is useful for catching defects in early stages, which makes it cheaper and less time-consuming to fix them compared to later in the development process. Given the importance of the ahead of time planning the framework results to be quite inflexible and doesn't take into consideration the

possible changing of requirements during the development of the project.

### 3.4 Unified Process

This methodology is structured, iterative, and incremental and it emphasizes risk assessment, architecture, and continuous stakeholder involvement. It achieves these through distinct phases(Inception, Elaboration, Construction, Transition) and iterations which are, unlike Scrum, different length timeboxes, and not emphasized the same. Its values include adaptability, quality focus, and comprehensive documentation. While the Unified Process is suitable for complex, large-scale projects due to its detailed planning and risk mitigation, it can be expensive and complex, making it less agile and flexible compared to Scrum.

### 3.5 Agile

We already mentioned why we choose the agile methodology, now we had to choose a framework that utilizes it. We learned about many frameworks, a few of those were frameworks for large scale projects, which we aren't going to go in depth about here, since the magnitude of this project doesn't require it. We learned in depth about XP and Scrum. Since both of these are mostly similar, here we are going to mention a few key features and then argue why scrum is the more suitable for our project.

- Extreme Programming

Extreme programming focuses on customer satisfaction and responding to changing customer requirements through practices like pair programming, test-driven development, and continuous integration. It also encourages frequent

releases in short development cycles to improve productivity and introduce checkpoints for new customer requirements and focuses on simplicity, communication, feedback, and courage among the development team.

- Scrum

Scrum is built on the Agile Manifesto and the 12 Agile Principles. It uses fixed-length iterations called Sprints, lasting typically 2-4 weeks. The Scrum Team has defined roles: Product Owner, Scrum Master, Development Team. In and around the sprints there are structured events: Sprint Planning, Daily Scrum, Sprint Review, Sprint Retrospective. Scrum helps teams deliver value incrementally in a collaborative way. It has the artifacts Product Backlog, Sprint Backlog and Increment. It is important to maintain a prioritized Product Backlog to manage changing requirements and ensure that the team works on the most valuable tasks.

We chose scrum, because it is ideal for a small software startup as it fosters rapid development and adaptation to changing market demands. Scrum's lightweight framework is easy to understand and implement, allowing our team to stay focused, aligned, and responsive to our customers' feedback and business priorities. It promotes team collaboration and self-organization, and ensures regular delivery of valuable software increments, which values are important to almost all Software Developments.

## 3.6 Epics and User Stories

As part of Scrum we set up a Backlog in Atlassian's Jira webapplication. With the help of writing User Stories we pieced together Epics, which we are going to list below, and through those we identified issues and tasks, which all have been added to the backlog and can in the case of actual production be put in different Sprints.

### Epics:

- Transactions / Stripe integration
  - Receive Payment
  - Pay for Coaching
  - Take a Cut From Payments
  - Change Payment Information
  - Change Billing Information
- Explore Page
  - Find Coach Through Explore Page
  - Filter Coaches
  - Get Found
  - Control How to Appear on The Explore Page
  - Get Notified if Coachin Spot is Freed
- Chat

- Chatting with Coach
- Send and Receive Attachments
- Chatting with Trainee
- Seeing Trainee Details in a Sidebar
- Selecting Different Trainees to Chat to
- Calling / Video-Calling
  - Have Call between Coach and Trainee
  - Have Videocall between Coach and Trainee
- User Statistics
  - See Personal Statistics
  - See Statistics of Specific Trainee
  - See Average Statistics of All Trainees
  - Update / Log a Specific Metric
  - See Workout Specific Statistics
  - See Statistics for Selected Time Period
- Workout Builder
  - Create a New Workout
  - Save a Workout Template
  - Use a Workout Template

- Prescribe a Workout
- Search for a Saved Workout
- Edit a Saved Workout

## 4 Timeplan

### 4.1 Time Management Towards the Deadline

After the project kick-off at the beginning of February, the team intends on spending the entire month in the planning phase. We think this is the right decision as it will allow us to carefully examine each aspect of our project, from the business standpoint, the requirements and component structure to the security, release planning and post-launch maintenance. Such a time window will allow us to carry out a design sprint or a mini design sprint, documents from which were described in the Analysis, as well as prepare the following items before we can start the development stage:

- Figma Prototype, see Design
- UML Component Diagram
- UML Context Diagram
- Excel Spreadsheet with Project Requirements, Time Estimations and MoSCoW Prioritization
- UML Data Model Diagram
- UML Class Diagram
- Business Model, along with Personas and Value Proposition Canvases
- UML Use Case Diagrams

- UML Sequence Diagrams
- UML State Machine Diagrams

Once the initial documentation phase is finished, the team will move onto the development phase which will last until the beginning of May and will result in the delivery of the Minimum Viable Product for LinkedGym. Next, the team will spend the rest of May adding more features and polishing the product to be ready for the realease of the Minimum Marketable Product at the beginning of June. At this point, the team will continue on adding features that have been prioritized as "Could", implementing user feedback and fixing any bugs that will pop up, but the project will move into the final, maintenance phase.

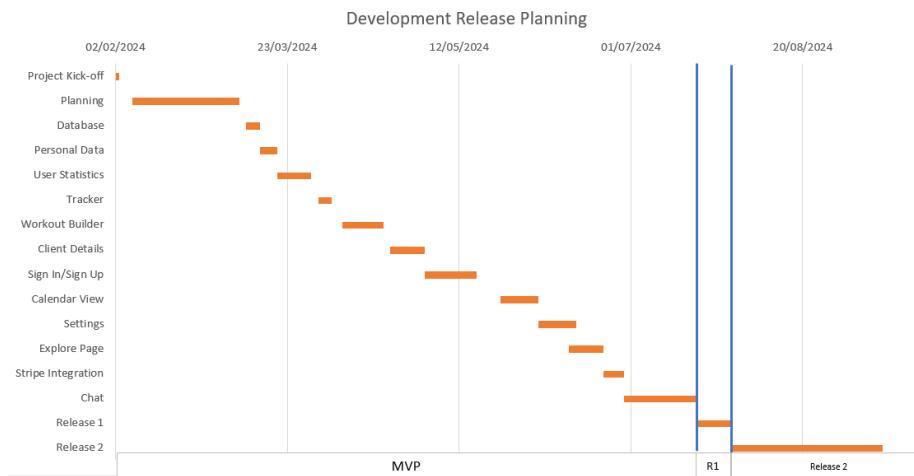


Figure 7: First Version of the Timeplan Gantt Chart

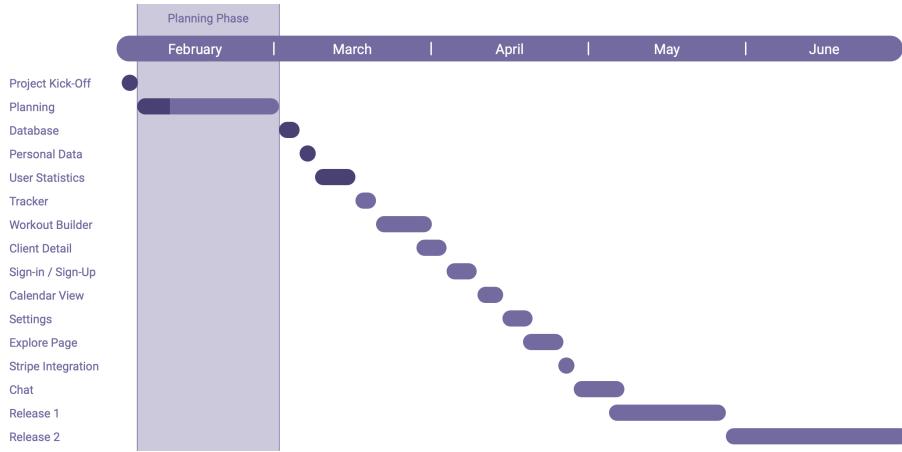


Figure 8: Second Version of the Timeplan Gantt Chart

## 4.2 Time Estimates

To prepare a Time Management plan as seen in the previous section, the team has conducted both a top-down, as well as a bottom-up time estimation for each requirement, to ensure our results are as accurate as possible. We went through this process twice during the project, as we were not happy with the initial estimates we got. In the end, we are confident in our plan. We followed the requirement structure from the Requirements Chapter. For the estimation process we used a Microsoft Excel Workbook, where each Spreadsheet corresponded to one component, and contained all of it's requirements. As our estimation factor, we chose to use the number pi rounded up to two decimal places - 3,14. We also chose to use MoSCoW prioritization for each requirement. The result of our work can be seen below in the attached print out of the spreadsheets.

## Delivery Requirements

<b>Sub-component</b>	<b>MoSCow</b>	<b>MVP time estimate</b>	<b>All time estimate</b>
Optimization	M	100	314
Chat Component	M	600	1650
Explore Page	M	60	75
Sign in / Sing up Service	M	250	505
Login Service	M	13	280
Workout Builder	M	130	326
Settings	M	20	62
Transactions	M	175	175
User Statistics	S	53	141
Calendar Component	S	15	91
Trainee Personal Data	S	22	38
Client Details for Coach	S	13	37
Social Media Integration	C	3	43
Video-call	C		
landing page for coach	C		
a way for coaches to look for trainees	C		
AI integration	W		
	Hours	1454	3737
	Days, with 5 people working	36,35	93,425

## Tracker Component

<b>Sub-components</b>	<b>MoSCoW</b>	<b>Time Estimate</b>	<b>Estimation factor</b>
Choose to log a workout	M	10	31,4
Input Exercises	M	0	0
Input Resistance	M	0	0
Input Repetitions and Sets	M	0	0
Input Lift Category	M	0	0
Input Rest Time	M	0	0
Option to log a meal	M	5	15,7
Input Food Name	M	0	0
Input Nutritional Value	M	0	0
Input Calories	M	0	0
Switch between metric and imperial measurements	S	3	9,42
Copy workout from coach and just fill in the values	S	7	21,98
Option to log measurements	S	5	15,7
Input Arm Measurements	S	0	0
Input Calve Measurements	S	0	0
Input Neck Measurements	S	0	0
Input Thighs Measurements	S	0	0
Input Chest Measurements	S	0	0
Input Waist Measurements	S	0	0
Input Bodyweight Measurements	S	0	0
Input Body Fat Percentage	S	0	0
Search for foods with pre-inputted calories and nutrition	C	15	47,1
Save meals	C	2	6,28
Calculate BMI	C	1	3,14
Option to log sleep	C	3	9,42
Rate Sleep Quality from 1 to 10	C	0	0
Input amount of hours slept	C	0	0
Track "more" option	W		0
Measure from photo	W		0
		51	160,14

4 days for all the features

## User Statistics Component

<b>Sub-components</b>	<b>MoSCoW</b>	<b>Time estimate</b>	<b>Estimate Factor</b>
Show muscle groups hit in todays workout on a body	M	13	40,82
Show calorie progress for today	M	2	6,28
Show Nutrition intake progress for today	M	2	6,28
			0
Show a summarized version of the exercise to-do list for the day	S	10	31,4
Show Strength Performance Graph	S	10	31,4
Show Training Consistency Graph	S	5	15,7
Show Bodyweight Graph	S	2	6,28
			0
Show muscle groups hit in the week	C	1	3,14
			0
Display current Coach	W		0
		141,3	

MVP: 53h

## Calendar - Workouts Component

<b>Sub-components</b>	<b>MoSCoW</b>	<b>Time estimate</b>	<b>Estimate Factor</b>
Show calendar view	M	15	47,1
Show tasks to be done	M	3	9,42
Show upcoming workouts	M	8	25,12
Select specific workout day	M	1	3,14
Highlight current day	M	1	3,14
Switch between workouts	M	1	3,14
			0
check tasks that are done	S	4	12,56
weekly view of workouts	S	2	6,28
weekly view of tasks	S	2	6,28
send reminder for upcoming workouts	S	1	3,14
			0
integrate with phone calendar	C	4	12,56
show a weekly review tab	C	12	37,68
share workout of the day with social media	C	5	15,7
			0
book a gym slot	W		0
display personal events	W		0
AI features	W		0
			185,26

MVP: 90h

## Personal Data Component

<b>Sub-components</b>	<b>MoSCoW</b>	<b>Time Estimate</b>	<b>Time Estimate</b>
change name	M	1	3,14
change age	M	1	3,14
change weight	M	1	3,14
change height	M	1	3,14
change username	M	1	3,14
credential information	M	1	3,14
change profile picture	M	1	3,14
change experience level	S	1	3,14
change app behaviour (such as theme)	S	1	3,14
change notifications behaviour	S	1	3,14
change language	C	1	3,14
change coach	C	1	3,14
		12	37,68

MVP: 22h

## Explore Page Component

<b>Sub-components</b>	<b>MoSCoW</b>	<b>Time estimate</b>	<b>Estimate Factor</b>
Display Information for each individual Coach	M	6	18,84
Display a photo of each individual Coach	M	2	6,28
Scroll down to see more coaches	M	2	6,28
Search for a specific coach	M	8	25,12
Redirect to coaching landing page	M	1	3,14
			0
Filter coach search	S	1	3,14
Sort coach search	S	1	3,14
if the coach profile picture is hovered, a introductory video pops up	S	3	9,42
			0
View a shortened version of the coach's profile in the explore page	C		0
		24	75,36

MVP: 60h

## Transactions Component

<b>Sub-components</b>	<b>MoSCow</b>	<b>Time Estimate</b>	<b>Estimate Factor</b>
Stripe integration	M	5	15,7

MVP: 16h

## Workout Builder Component

<b>Sub-components</b>	<b>MoSCoW</b>	<b>Time estimate</b>	<b>Estimate Factor</b>
Menu for choosing different muscle groups	M	16	50,24
Database for choosing different exercises for each muscle group	M	9	28,26
Option to add reps	M	1	3,14
Option to add resistance per exercise	M	1	3,14
Option to add resting interval between sets	M	1	3,14
Ability to save workout	M	8	25,12
Ability to edit the workout	M	2	6,28
Ability to reuse the workout	M	1	3,14
Ability to schedule the workout	M	2	6,28
			0
Menu tracking the progressive overload	S	4	12,56
Menu tracking the weight lost/gained	S	3	9,42
Menu tracking the weekly visits to the gym	S	3	9,42
Support for linking sets into a supersets	S	5	15,7
Ability to mark a set as a warm-up set	S	2	6,28
Ability to mark a set as a dropset	S	2	6,28
			0
Timer per workout	C	1	3,14
Graphic representation for total time spent at the gym	C	3	9,42
Graphic representation for strength gained	C	3	9,42
Graphic representation for weight lost/gained	C	3	9,42
Ability to share your workout	C	1	3,14
Advanced analytics such as muscle activation matrices	C	8	25,12
Ability to connect the workout with a fitness app for accurate calories tracking	C	24	75,36
Calculator for total weight lifted per workout	C	1	3,14
			0
include a feature for automatically correcting users' exercise form in real-time	W		0
The capability for multiple users to participate in the same workout simultaneously won't be a feature in this version	W		0
The workout builder won't include an advanced AI personal trainer	W		0
Real-time social interaction features, like live workout sessions with coach	W		0
In-depth biomechanical analysis of joint angles	W		0
		104	326,56

MVP: 130h

## Settings Component

<b>Sub-components</b>	<b>MoSCoW</b>	<b>Time estimate</b>	<b>Estimate Factor</b>
Include profile information	M	2	6,28
Include password management	M	2	6,28
Include privacy setting	M	2	6,28
			0
Include notification preferences	S	1	3,14
Include language preferences	S	1	3,14
			0
Include two factor authentication settings	C	20	62,8

MVP: 20h

## Client details Component

<b>Sub-components</b>	<b>MoSCoW</b>	<b>Time estimate</b>	<b>Estimate Factor</b>
input name	M	1	3,14
input credit card information	M	2	6,28
input contact information	M	1	3,14
			0
input date of birth	S	1	3,14
input gender	S	1	3,14
			0
input billing information	C	1	3,14
input medical history	C	4	12,56
input current medication	C	1	3,14
			0
input social security number	W		0
input passport number	W		0
input drivers licence number	W		0
input bank account details	W		0
input income details	W		0
		12	37,68

MVP: 13h

## Calendar View Component

<b>Sub-components</b>	<b>MoSCoW</b>	<b>Time estimate</b>	<b>Estimate Factor</b>
Include days of the month	M	1	3,14
Include number of the week	M	1	3,14
Include names of the days	M	1	3,14
Include workout of the day	M	1	3,14
Include numbers of the weeks	M	1	3,14
		0	
Include meal plan for the day	S	6	18,84
Include time slots for each day	S	4	12,56
Include events	S	4	12,56
Include reminders	S	3	9,42
		0	
Include color coding for different events or workouts	C	2	6,28
Include goals for the day - burn 400cals - eat 2800cals...	C	1	3,14
Include inspirational quotes	C	4	12,56
		0	
Include contact information	W		0
Include images	W		0
Include lunar phases	W		0
Include map	W		0
		29	91,06

MVP: 15h

## Sign-in/Sign-up Service Component

<b>Sub-components</b>	<b>MoSCoW</b>	<b>Time estimate</b>	<b>Estimate Factor</b>
Ability to register for a new account by providing email	M	20	62,8
Ability to register for a new account by providing username	M	10	31,4
Ability to register for a new account by providing password	M	10	31,4
Secure authentication of the users	M	30	94,2
Ability to recover forgotten email	M	5	15,7
Ability to recover forgotten password	M	3	9,42
Must agree to the app's Terms of Service	M	1	3,14
Must agree to the app's Privacy Policy	M	1	3,14
Ability to sign-up/log-in using social media accounts	M	15	47,1
			0
Two-factor authentication	S	30	94,2
Email verificaiton	S	10	31,4
Device recognition	S	15	47,1
Ability to remember previously used devices	S	1	3,14
			0
Session timeout peridos	C	1	3,14
Account activity notification	C	1	3,14
Reauthentication for Sensitive Actions	C	5	15,7
Password Strength Meter	C	3	9,42
Altherntive authentication methods	W		0
			0
A guess access feature	W		0
Cross-App Data Sharing	W		0
		161	505,54

MVP: 250h

## Login Component

<b>Sub-components</b>	<b>MoSCoW</b>	<b>Time estimate</b>	<b>Estimate Factor</b>
Input Login/Email	M	2	6,28
Input Password	M	2	6,28
			0
Forgot Password Option and Sign in with Google, Facebook, Microsoft	S	8	25,12
OAuth Verification	S	30	94,2
reCAPTCHA test	S	20	62,8
			0
Fingerprint Sign-In	C	10	31,4
Face Unlock	C	10	31,4
Block IP if too many wrong sign in tries	C	5	15,7
			279,46

MVP: 13h

## Chat Component

<b>Sub-components</b>	<b>MoSCoW</b>	<b>Time estimate</b>	<b>Estimate Factor</b>
Real-Time Messaging	M	70	219,8
User-to-user chat	M	1	3,14
Multimedia Messaging	M	12	37,68
Emoji and Sticker Support	M	1	3,14
Message Status Indicator	M	2	6,28
Typing Indicator	M	8	25,12
Message sent indicator	M	1	3,14
Message delivered indicator	M	1	3,14
Message seen indicator	M	1	3,14
			0
Audio Call Support	S	35	109,9
Video Call Support	S	35	109,9
Scheduled Messages	S	5	15,7
Integration with external devices	S	60	188,4
			0
Message Search	C	15	47,1
Message Editing	W		0
Message Deletion	W		0
Customizable Themes	C	20	62,8
			0
AI messaging assistance	W		0
In-Chat Purchases	W		0
Pseudonymous Chat Without Registration	W		0
Surveillance Features	W		0
		838,38	
		1676,76	

MVP: 600

## Social Media Component

Sub-components	MoSCow	Time estimate	Estimate Factor
Link social sites in profile	M	1	3
Display follower count from social sites	C	12	40
Allow communication through other channels	W	0	0

MVP: 3h

## Database Component

<b>Sub-components</b>	<b>MoSCoW</b>	<b>Time estimate</b>	<b>Estimate Factor</b>
Data validation	M	40	125,6
Concurrency Control	M	2	6,28
Data Model Support Research	M	8	25,12
Administration tools	S	40	125,6
Use a querry language	S	8	25,12
Sell data for advertisement	W	0	0

MVP: 160h

## Non-Functional Requirements

### **Non-Functional Requirements**

Web-browser based version of the Application

Phone App version of the Application

Social Media Integration

Include Database Handling

Approved by Henrik

Android Compatible

iOS Compatible

Coaches Need to be Legitimate

Data needs to be stored in a secure manner

The application needs to be optimized to run smoothly on the most widely used versions of systems

### **4.3 How the methodology affects our timeplan**

As we mentioned in the Methodology Chapter, our methodology of choice is Agile applied in the Scrum framework. It was one of the greatest factors we took into account when creating our timeplan, making sure the project applies Agile principles, and follows the structure of Scrum. That is how we ended up with a shorter planning phase followed by a long development phase, during which we have the freedom of adjusting and creating more documentation as needed. Another result of our framework choice is our release plan, which consists of, most notably, the MVP and MMP releases. We also planned for releases after the MMP, to align with Scrum's premise of meeting customer expectations and incrementing on the product. Scrum events were also an important factor to consider during time estimation, since, on average, they take out one working day from a full workweek. We tried to account for this setback in time in our charts as best as we could, by manually adjusting margins and counting Scrum events into our time estimates.

### **4.4 Strategy for Project Completion and Sprint Setup**

To ensure the project completion we would stick closely to our chosen methodology and framework;

- We would divide ourselves into the Scrum Team: Product Owner, Scrum Master and Development Team
- Throughout the development phase we would conduct Sprints that would increment on the product, check off items from the backlog, and last 2-4 weeks

- Before each sprint, we would appoint one day to sprint planning, to define a goal for the sprint for our stakeholders and appoint items from the product backlog into the sprint backlog, breaking them down into more manageable tasks
- During each sprint, we would conduct the Daily Scrum, during which the development team would align themselves on the progress, change the status of items in the sprint backlog, make plans for the next day, validate their work with the Definition of Done and adjust as needed
- After each sprint, we would carry out a Sprint Review, in which we would present the done items, talk about the adjustments made during the sprint and give feedback
- Following the Sprint Review, a Sprint Retrospective would take place, reflecting on how the sprint went and capturing ways of increasing quality and productivity

Sticking to the Agile principles we would also pay close attention to customer satisfaction and stakeholder feedback, pivoting if necessary.

For our Sprint Setup, we would use the platform Jira in its Scrum configuration for running our framework. The backlog is already prepared before development begins during the Planning Phase of the project, filled out by user stories with acceptance criteria, ready to be broken down into tasks. For source control we would use GitHub, which allows for integration with Jira, making our platforms a fully cohesive system. Lastly, we would share our documentation and external files

through Google Drive.

## 4.5 Scaling agile up and down

Since our team is not big enough to consider a scaled up Agile framework, we do not intend on scaling Scrum either up or down, instead using the framework in it's original format throughout the development. The only point in our project which could be considered as scaling our methodology would be moving into the maintenance phase because the frequency of the development would be lowered as the team would move on to other projects.

Having said that, if we were to try and carry out this project in a larger team, we would have chosen to implement Large Scale Scrum (LeSS). The reason for that choice is that it seems to us like the simplest way of applying the principles, purpose, elements, and elegance of Scrum in a large-scale context. Simplicity is very valuable in our situation, as we have never conducted scaling agile, so starting out with a simple method of achieving that goal seems like the most reasonable solution. The scaling up would begin shortly before the start of the development phase, after we would have prepared our documentation. Following this, we would begin scaling down the operation as the development phase would near its end, going back to a standard Scrum setup. The process of scaling up and down would not pose much of a challenge as LeSS uses only a single backlog, therefore we could prepare the project just as we would do it normally, then start assigning portions of the backlog to each team, to finally take the leftovers from the backlog when going back to Scrum.

## 5 Business Model

By analyzing industry trends and identifying opportunities we plan to tailor our business model. This tailored approach aims to not only effectively reach our target audience but also strategically position our offerings amidst competitors. Based on personal experience and the today's world full of digital content and enormous social media influence, we came to the conclusion that there would not be better way to attract customers than doing so digitally.

Our Coaching Freelancing Platform aims to solve a key problem that the majority of the fitness enthusiasts and health instructors have to face when it comes to online coaching – the absence of communication, the lack of easy-access workouts and direct contact with your trainer and the difficulty of effortlessly finding trainees. Our product provides digital environment where both coaches and trainees benefit from each other. Trainers can create their own profile listing their expertise, awards and pictures, diplomas and certificates, years of experience, area of training, result of previous clients and their feedback. If they already have a greater number of followers, it be extremely easy for them to find clients through the platform. If not, they can promote themselves and rise above other of their colleagues. Additionally, building clients' workouts won't be so time consuming and demanding for them as we provide a workout builder with variety of exercise to choose from, set reps and sets and place it in a monthly calendar. Fitness enthusiasts on the other hand will have the easiest way to find someone to help them achieve their health goals. With the ability to filter area of training, years of experience, testimonies, picture-based result,

etc., their decision will be trouble-free. Furthermore, we have solved the inability to communicate with your online coach by providing private one-on-one chatting channels between the trainee and the trainer. In those channels, both sides will be provided with statistics of the progress of the customer.

Our business plan include multiple revenue sources to support. Our primary source of income will come from transactional commissions, where we take a percentage from each coaching transaction made through our platform. Additionally, we will explore revenue streams by letting different sporting brands to promotes their products on our application. Moreover, leveraging a comprehensive database featuring user preferences, gym performance metrics, sleep and dietary habits, as well as body measurements, stands as a pivotal asset.

Having said the wide scope of our web-application, we will have a lot of research and development expenses, programmers' wages. Additionally, a budget for marketing and advertising fees has to be allocated as well.

We are going to have retail partnership with sports well-known brands who have big influence over the health community. Trainers will have easy access to their accounts through a web-site whereas trainees will be able to download the application from the App Store and Google Play Store.

The key task our team needs to face is the development and deployment of the Coach Freelancing Platform. This includes various stages, including planning, software design and architecture, coding and programming, testing and quality assurance, user interface and experience design, as well as implementation and ongoing maintenance. Additionally, our team will focus on providing continuous support to

ensure the platform operates smoothly, addressing any technical issues promptly, and incorporating user feedback to enhance the overall user experience.

Two essential resources critical to building and operating our software are a robust database infrastructure and the intellectual property associated with our application. A well-structured database is fundamental for storing and managing user data, coach profiles, workout routines, and other essential information efficiently. Furthermore, safeguarding the intellectual property rights to our application ensures that our innovative features and functionalities are protected, preventing unauthorized use or replication by competitors.

Two strategic partnerships crucial to our business model are with payment processing platform Stripe and handling transactions efficiently. Integrating with Stripe enables seamless and secure payment transactions on our platform, enhancing user trust and facilitating monetization through commissions. Additionally, partnering with transaction handling services ensures reliable and efficient processing of coaching session payments, reducing friction for users and coaches alike while streamlining our revenue generation process. These partnerships play a vital role in optimizing the financial operations of our Coaching Freelancing Platform and enhancing the overall user experience.

Health and fitness is an industry that is extremely dynamic and develops faster than ever. Therefor agility and adaptability are very important for our business model. By closely monitoring market trends, technological advancements, and user feedback enables us to quickly adapt and improve our platform, adding new features, improving user experience, as well as staying ahead of the competition. Our agile

way of working guarantees that Coaching Freelancing Platform adapts to diversifying customer tendencies as well as changing the market situation, thus, ensuring the project's success in the long-term perspective.

# 6 Design

## 6.1 How Are We Going to Build It?

For the development of LinkedGym, we embraced a user-centric approach, focusing on how and who the product will benefit. This strategy involved several stages to ensure we understood the exact needs of the user and integrated these insights into our design. To build LinkedGym, we adopted the Agile methodology, with a particular focus on the Scrum framework. Agile's iterative and incremental development process is ideal for our project, allowing us to adapt swiftly to changing requirements and deliver value consistently. Here's an overview of our initial phase and the development process:

- 1. Identifying User Needs and Benefits:** We started with establishing who the major users of LinkedGym would be—fitness coaches and trainees. Our goal was to provide a unified solution which aims to provide improved solutions for the coaching services, as well as to ensure smooth training process of the trainees.
- 2. Brainstorming and Concept Development:** Using brainstorming techniques like Crazy 8s, we generated a wide array of ideas. We then combined the best concepts to create user stories and personas, which helped us visualize our target users and their needs.
- 3. User Journey Mapping and Testing:** We evolved these insights into detailed user journey maps and performed user testing sessions to gather feedback.

This process ensured that our design effectively addressed user pain points and preferences.

4. **Prototyping:** We divided the application into two parts for optimal convenience: a web app for coaches and a mobile app for trainees. Using Figma, we developed prototypes and performed multiple rounds of user testing, refining the prototypes based on the feedback received.

## 6.2 Architecture

We planned LinkedGym's architecture to support scalability, flexibility, and a seamless user experience across both the web and mobile platforms. The key components of our architecture include:

### 6.2.1 Frontend:

- **Web Application:** Would be developed using modern web technologies such as React or Angular, ensuring a responsive and interactive interface for coaches.
- **Mobile Application:** Built using Flutter or React Native would deliver a consistent user experience on both iOS and Android for trainees.

### 6.2.2 Backend:

- **Firebase Integration:** We chose to utilize Firebase for its comprehensive suite of tools, including Realtime Database, Cloud Firestore, Authentication,

Cloud Functions, and Hosting, to streamline development and ensure high performance.

- **APIs:** Implementing RESTful APIs to facilitate efficient communication between the frontend and backend components, ensuring modularity and ease of maintenance.
- **Security:** Employing Firebase Authentication to provide secure and seamless user login and registration processes, safeguarding user data and privacy.

## 6.3 Sketches, Storyboard, Wireframes/Prototype

Our design process involved creating detailed sketches, storyboards, wireframes, and prototypes to visualize and iterate on the user experience. Key design elements included:

### 6.3.1 User Personas and Stories

Detailed personas and user stories helped us understand our target audience and their specific needs, guiding our design decisions.

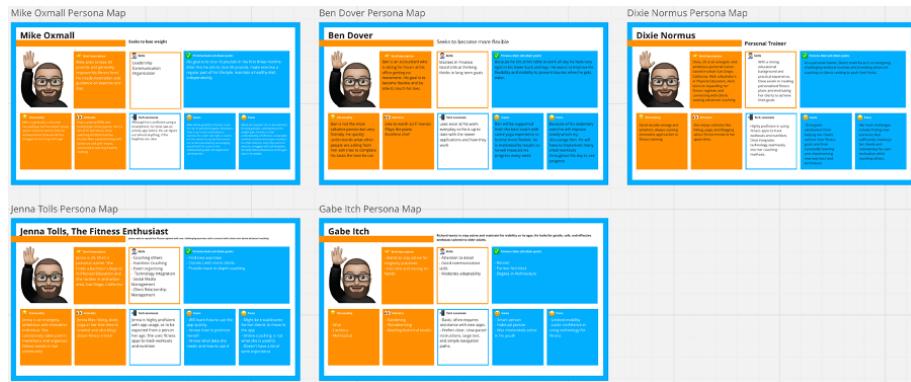


Figure 9: Personas

- **User Personas:** We created personas representing different types of users, including fitness coaches and trainees, to empathize with their goals, behaviors, and pain points.
- **User Stories:** We developed user stories to capture the requirements and expectations of each persona, ensuring that our design addressed real user needs.

### 6.3.2 User Journey Maps

Mapping the user journey allowed us to identify key interaction points and areas for improvement.

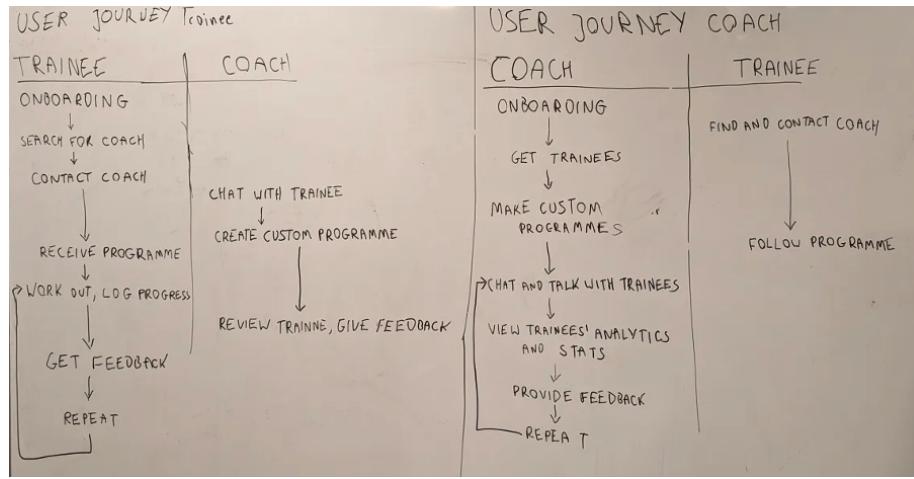


Figure 10: User Jouerney Map

- **Mapping Process:** We visualized the user journey from initial interaction with the app to achieving their fitness goals, identifying touchpoints, emotions, and pain points along the way.
- **Feedback Incorporation:** Through user testing and feedback, we refined the user journey maps to ensure a smooth and intuitive experience for users.

### 6.3.3 Wireframes and Prototypes

Using Figma, we developed interactive prototypes for both the web and mobile applications. These prototypes were refined based on user testing feedback to ensure an optimal user experience.

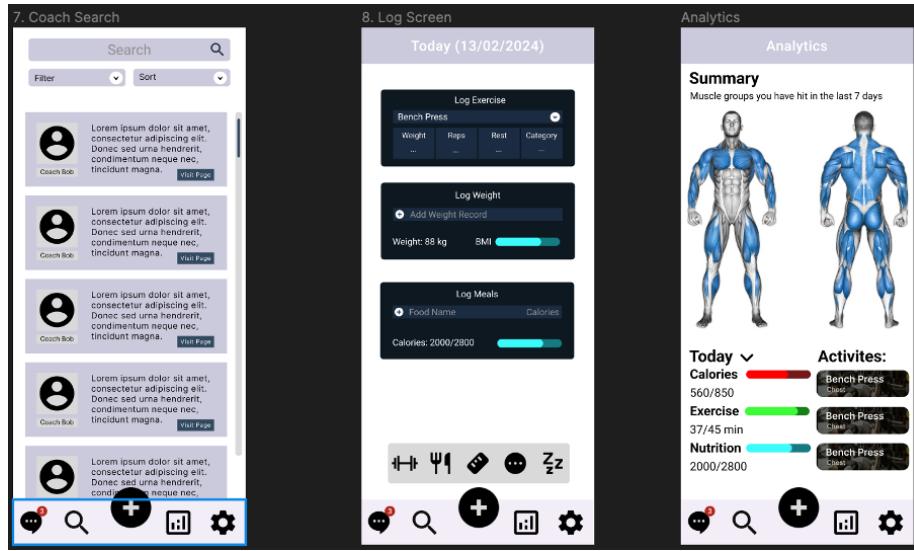


Figure 11: Mobile Application

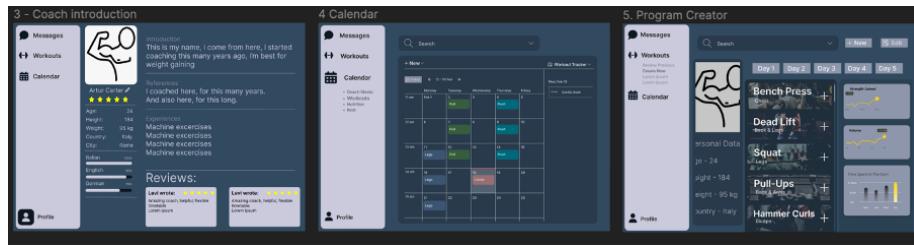


Figure 12: Web Application

- **Wireframes:** We created wireframes to outline the layout and functionality of each screen in the application, focusing on usability and navigation.
- **Prototypes:** Interactive prototypes were developed to simulate user interactions and gather feedback on features such as navigation, content placement, and user flow.

#### 6.3.4 Detailed Design

After finalizing the prototypes, we created UML diagrams, data models, and acceptance criteria. We also developed CRC cards, carried out Verb Noun Analysis, a RAID log, and performed MoSCoW and SWOT analyses to ensure a robust and comprehensive design.

- **UML Diagrams:** We used UML diagrams to visualize the structure and behavior of the system, including class, component, context, data model, use case, sequence, and state machine diagrams.
- **Data Models:** Data models were designed to represent the entities and relationships within the application, ensuring efficient data storage and retrieval.
- **Acceptance Criteria:** Clear acceptance criteria were defined to validate the functionality of the system and ensure that it met the requirements of stakeholders.

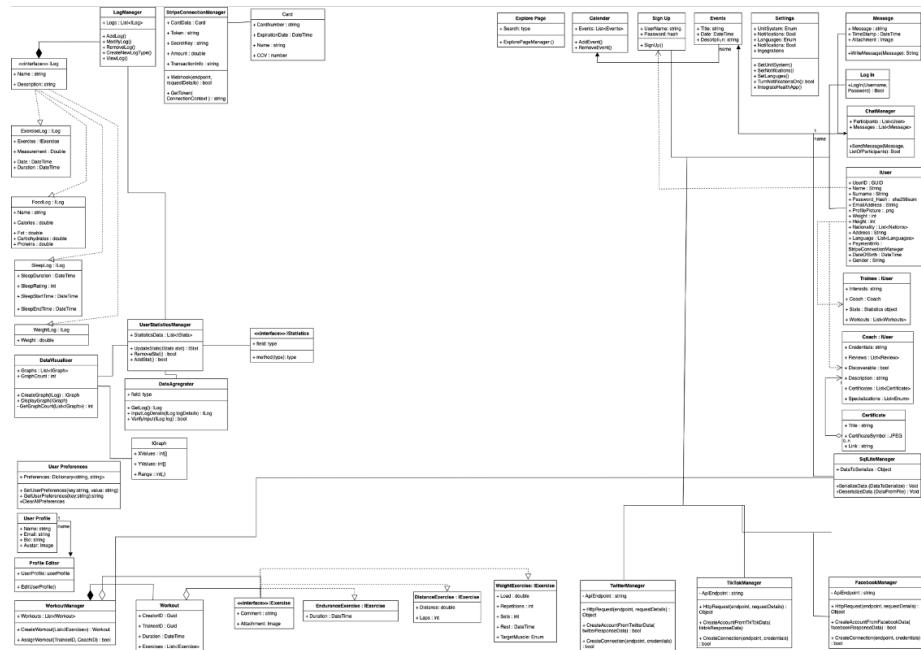


Figure 13: Class Diagram

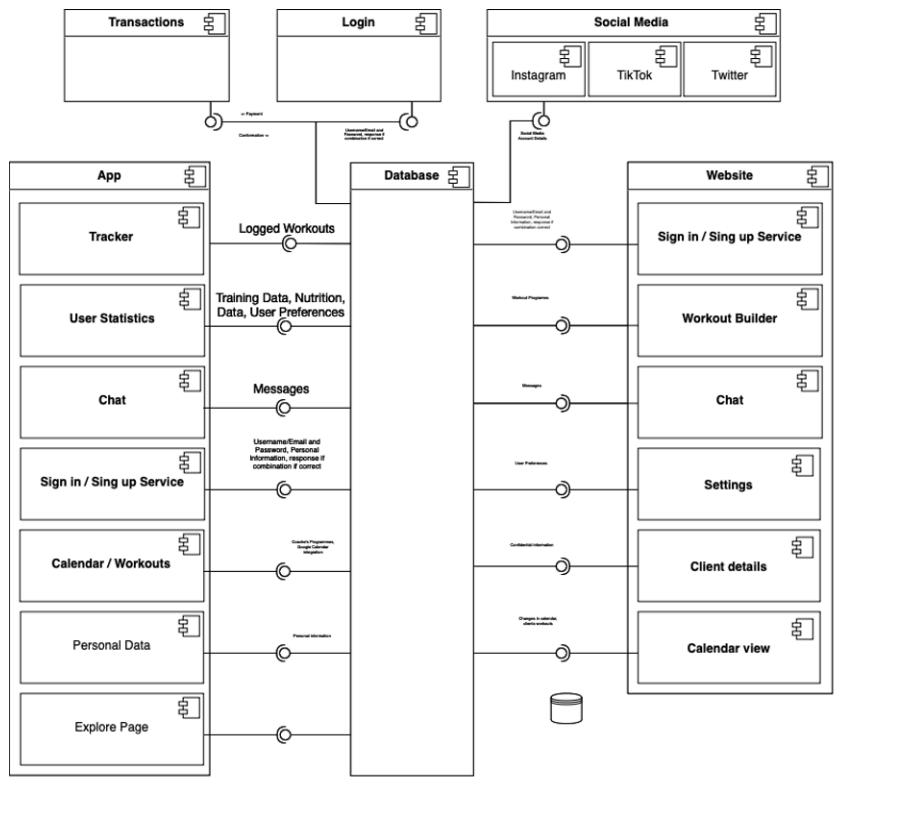


Figure 14: Our initial, wrong implementation of the UML Component Diagram

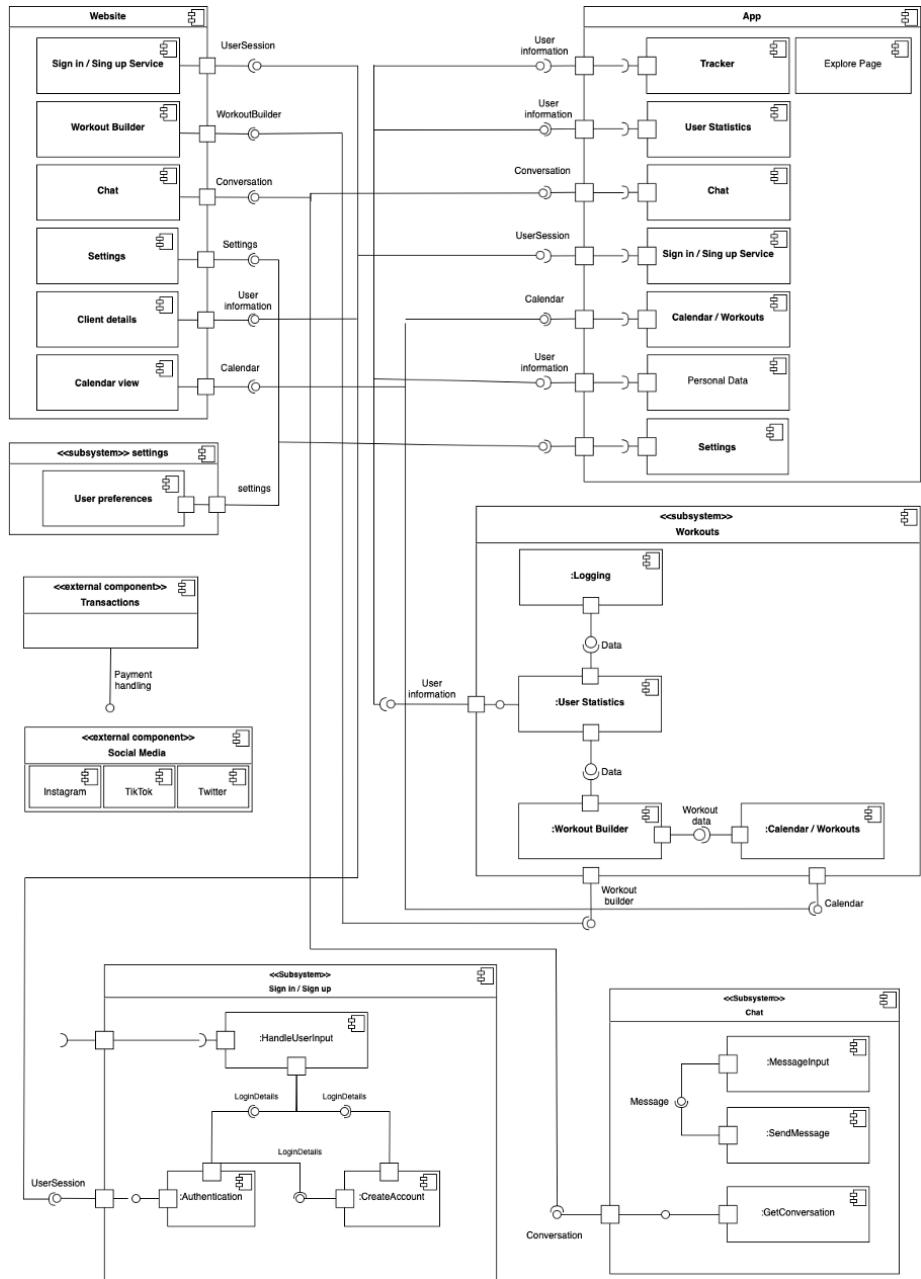


Figure 15: Our second, improved implementation of the UML Component Diagram

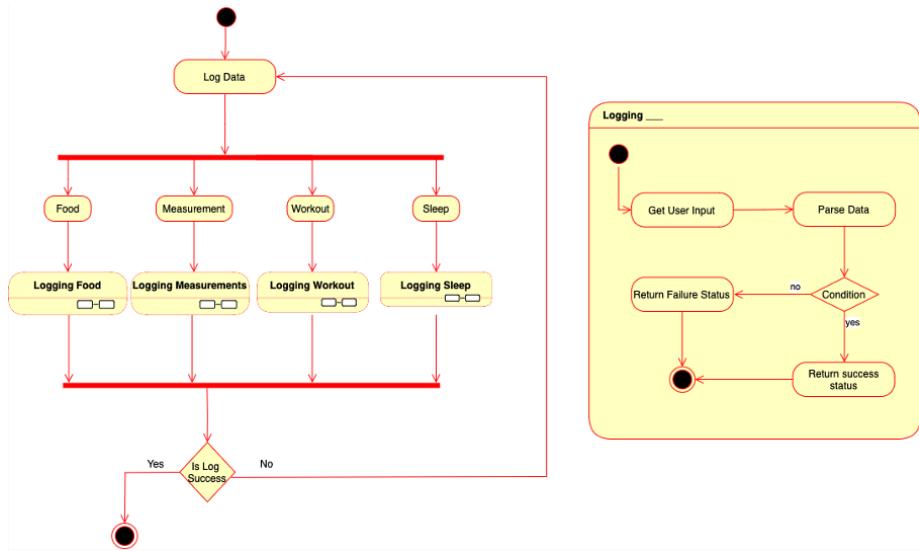
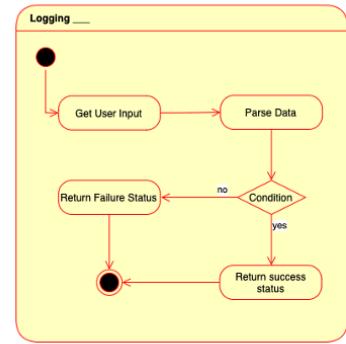


Figure 16: State Machine



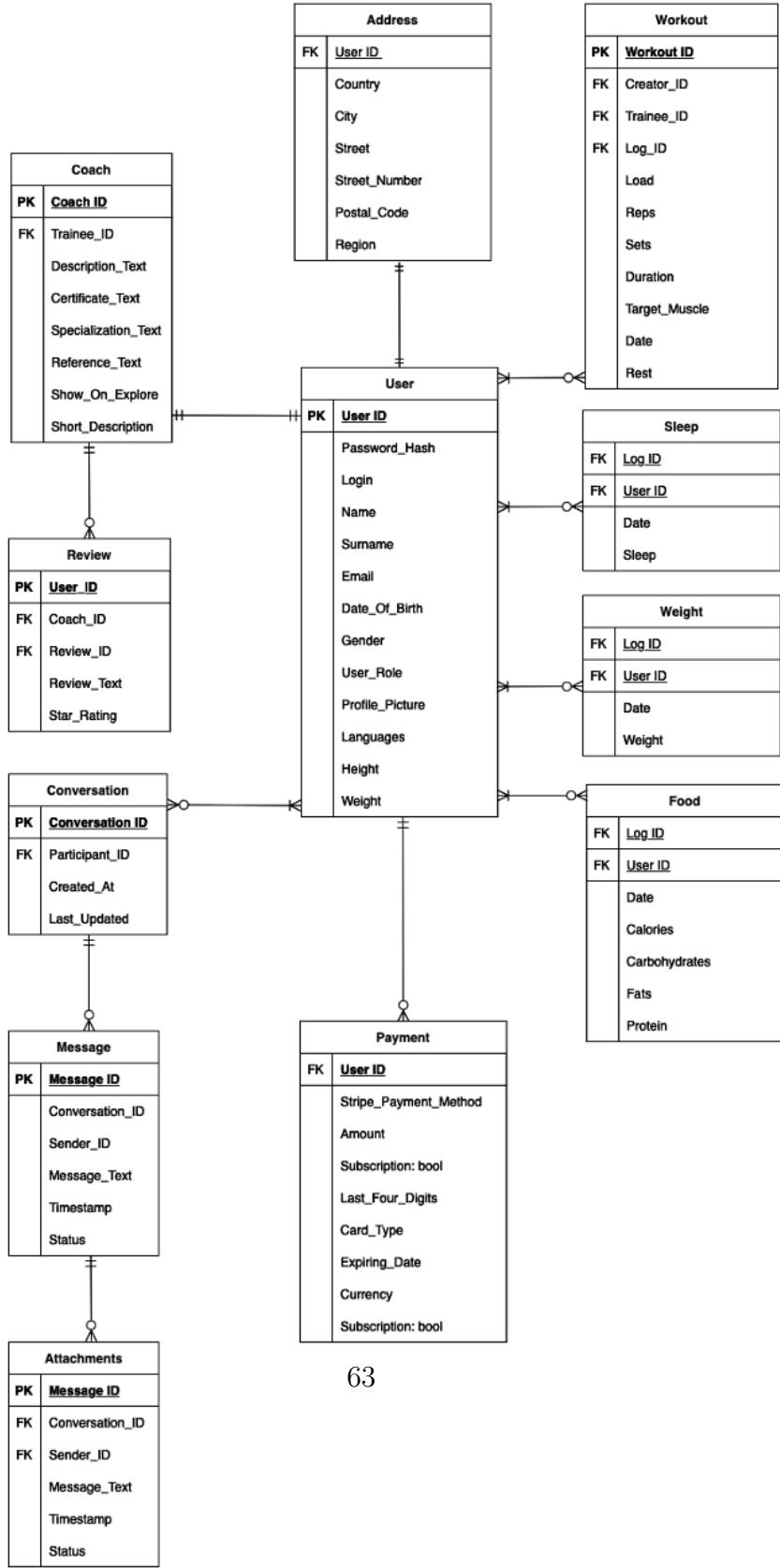


Figure 17: Data Model

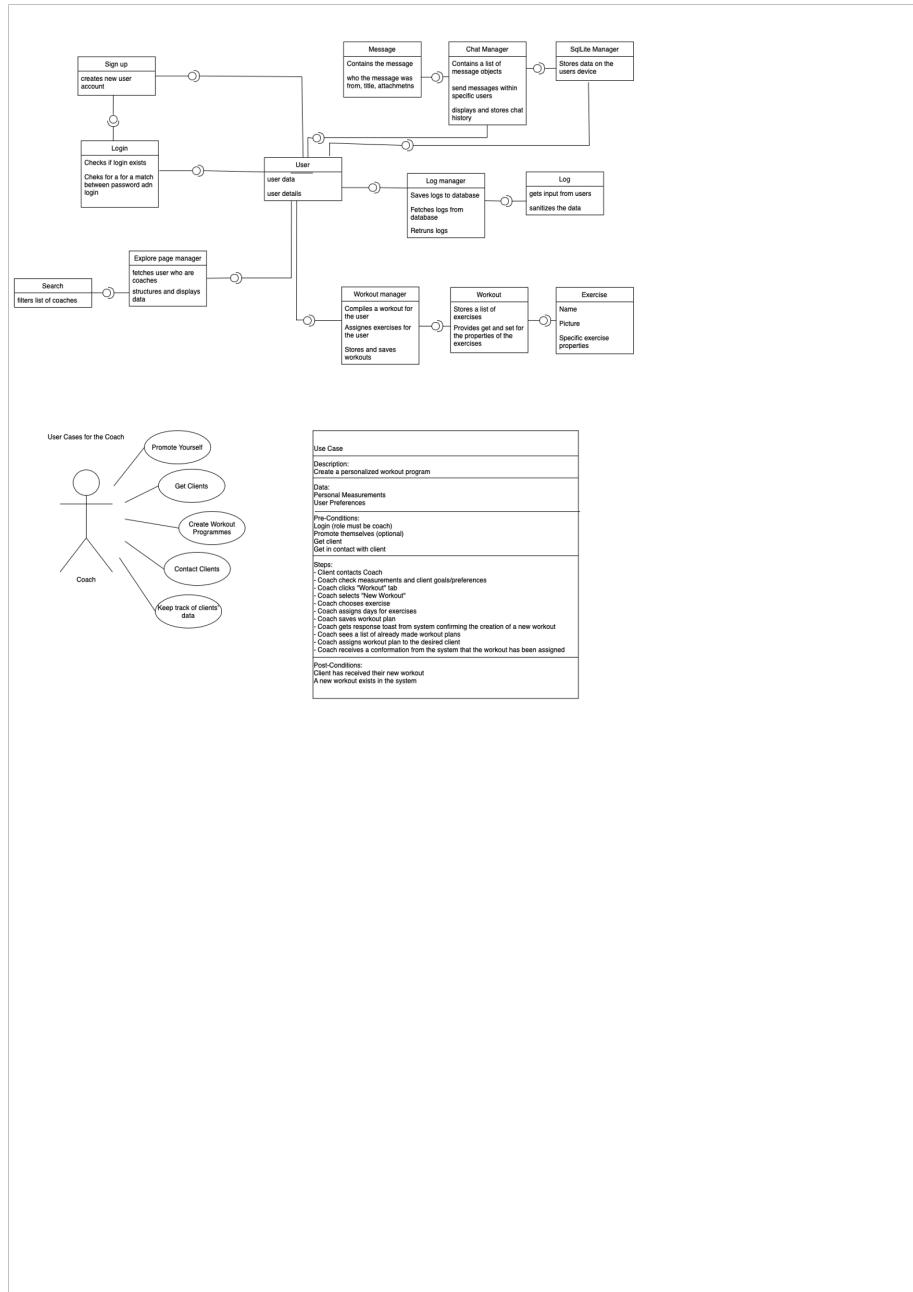


Figure 18: Coach Use Case Diagram along with a written out Use Case for a central requirement

## 6.4 Maintenance

To ensure LinkedGym's reliability and longevity we also focused on effective maintenance. Our maintenance strategy includes:

- **Continuous Integration/Continuous Deployment (CI/CD):** Implementing CI/CD pipelines to automate testing and deployment, ensuring seamless integration of updates and new features.
- **Monitoring and Logging:** Utilizing Firebase Performance Monitoring and Logging to track application performance, quickly identify issues, and maintain optimal user experience.
- **Regular Updates:** Delivering regular updates to fix bugs, introduce new features, and enhance existing functionalities based on user feedback and evolving market needs.
  - **User Feedback:** Actively collecting and analyzing user feedback to drive continuous improvement and ensure the platform meets user needs and expectations.
  - **Comprehensive Documentation:** Maintaining detailed documentation for developers and users to facilitate smooth onboarding, usage, and troubleshooting.

## 6.5 Conclusion

The design phase of LinkedGym emphasizes a user-centric approach, agile development practices, and thorough planning. By leveraging a cloud-based architecture, detailed wireframes, and robust maintenance strategies, we aim to deliver a high-quality platform that meets the evolving needs of the fitness coaching industry. Our iterative approach ensures that we remain responsive to changes, deliver value consistently, and create a seamless and engaging user experience.

# **7 Evaluation**

Working on the LinkedGym application has been a real challenge, which, we believe, has armed us with many necessary skills for software development process and project management. In this evaluation we aim to assess various aspects of the project, from the achievement of objectives to the performance of the team and the methodologies employed.

## **7.1 Project Objectives and Goals Evaluation**

The objective of LinkedGym was to create a platform that elevates the online coaching experience by baking the communication services, custom plan creation, and progress tracking all into one convenient and intuitive application. This objective in our opinion can be met, according to the research, the success of the prototyping and the other exercises we completed as part of the course. The app successfully addresses and solves the problem we identified with the user experience in current online coaching apps, providing a more cohesive and user-friendly interface.

## **7.2 Project Management and Processes**

The project was planned to be managed using the Scrum framework, which will in theory will be effective given the iterative and flexible nature of the development process. If the development were to get under way, the team would adhere to regular sprint cycles, continuously improving and adapting to the changing requirements.

### **7.3 Team Performance**

The team demonstrated strong collaboration and communication throughout the project. Each member contributed to almost every aspect of the project, from initial brainstorming, design and diagrams to the business canvas. The use of clear, to the point communication has helped us quickly resolve any issue that came up. This clear communication allowed us to help each other understand and grasp the ideas taught in the lectures.

### **7.4 Lessons Learned**

We have learned an incredible amount about the development process of a Software Project. The eachxercises were done throught the course, each one done the same week as it was teached and not left for the last week, which helped to understand and implment the techniques thought in class.

### **7.5 Overall Success and Areas for Improvement**

Overall, the LinkedGym project can be deemed a success, having met its primary objectives, which was to learn and practice. However, there are areas for improvement, the obvious being user testing, since the one for this project did not get much nor usefull feedback initially. Another area which we could focus more on is the market research, this can may be achieved by different questionnaires of people involved in this topic.

## 8 Conclusion

In conclusion, the LinkedGym project has provided a valuable learning experience and the knowledge that the lectures helped us gather have here been put in practice. The insights gained and skills developed during this project will most certainly be beneficial in our future.

The project's primary objective was to create a unified, user-friendly platform that streamlines communication, custom plan creation, progress tracking, and overall coaching experience for both fitness coaches and trainees. In our opinion we successfully worked out the outline and skeleton of the project, preparing everything to start the code developing phase, in the form of sprints.

Throughout the project, we encountered and overcame various challenges, for example using software we never used before for design, and for other various tasks or putting ourselves in the mind of our customers. Our design process, involving user personas, journey maps, wireframes, and prototypes, was crucial in making sure we found exactly what we all were looking to develop.

The business model development showed a viable opportunity for LinkedGym, with potential revenue streams from transactional commissions and partnerships with sporting brands. However, the success of LinkedGym will depend on effective marketing and the ability to attract influencers and coaches to the platform.

As this was our first project implemented in the proper Software Development way, there are several areas for potential improvement and future development, but in the teams opinion all of these improvements would be naturally addressed if we

actually used Scrum's iterative process. There weren't any huge gaps in our progress and work, that a first iteration should not have. The things mentioned in the Evaluation are problems that would be addressed at the Sprint Review, and fixed in the coming Sprints.

Overall, this project has been an invaluable learning experience, providing insights into the complexities of software development and project management. It has equipped us with practical skills and knowledge that will be beneficial in our future careers in software engineering. We hope that LinkedGym really has the potential to make a significant impact in the online fitness coaching industry.

## **9 Appendix**

### **9.1 Status Report and RAID Analysis**

# Project Status Report

Project Name: LinkedGym

Team: Francesco Schenone, Ignat Bozhinov  
Levente Sohár, Sebestyén Deák, Kacper Grzyb

Report Date: 25/04/2024

## Overall Project Status

The team is aligned with the course structure regarding the assignments. Everyone has a good understanding of the vision for the project, it being a fitness coach freelancing platform that allows users to find, promote, provide, and receive coaching.

## Project Progress

The exercises that have been completed so far are:

- Identify Goals and Risks
- Build a User Journey Map
- Crazy 8's
- Solution Sketch
- User Steps Storyboard
- Figma Prototype version 1
- User Tests with Figma Prototype
- Component Diagram
- Write Chapter 2: Software Process
- Project Requirements Spreadsheet
- Requirement Time Estimation
- MoSCoW Prioritization
- Project Implementation Plan (Gantt Chart)
- Write Chapter 3: Agile Planning
- Create and populate a Jira Backlog
- Create Epics and User Stories
- Data Model

- Class Responsibility Collaboration Cards
- Class Diagram
- Build a Business Model
- Make a Use Case Diagram for a single component
- Write out a Use Case for a Central Requirement
- Draw a Sequence Diagram of the Selected Use Case
- Make a State Machine

## Activities in Progress

The exercises that are in progress as of writing this report are:

- Verb Noun Analysis
- Write Chapter 5: Business Model, Personas, and User Stories
- Write Chapter 11: Software Operation, Maintenance and Evolution
- Make 5 Personas
- Make a Value Proposition Canvas
- Make a Status Report (being done right here)

## Challenges and Risks

The team might have misunderstood the purpose of creating the Jira backlog, the team's backlog contains requirements for the LinkedGym project, and not the Software Engineering Semester Project, therefore after populating the backlog the platform has remained mostly untouched as the team uses a Trello board for task management. Due to this issue the team might not be able to provide a fully accurate task burndown chart. Another potential issue might be time management for writing the final draft of the report and remaking the Figma prototype in may be due to projects and exams from other courses.

The team also performed a RAID Analysis for the LinkedGym project, results of which can be seen below:

RAID Category	Description	Impact	Owner	Priority
Issue	Figma prototype is sub-par	Minor	S.D	Moderate
Issue	Project timeline is not fully accurate	Minor	S.D	Critical
Dependency	Reliability on Stripe	Major	B. D	Negligible
Dependency	The app depends on influencers and user traction to provide value	Major	B. D	High
Risk	The platform may not get enough coaches to provide value	Major	B. D	High

Assumption	Platform gets user traction and gets populated with user generated content	Major	B. D	Critical
Assumption	The app gets approved by AppStore	Minor	B. D	Low
Risk	Chat service gets abused	Minor	B. D	Moderate
Risk	App violates data protection regulations	Minor	B. D	Low
Risk	The users don't respect app usage guidelines	Major	B. D	Moderate
Risk	Servers get overloaded	Major	B. D	Low
Risk	Targeted information attack	Major	B. D	Low
Dependency	Database is hosted off-premises	Major	B. D	High
Assumption	We have a working, reliable database	Major	B. D	Critical
Assumption	There is a database of exercises for coaches to use	Major	B. D	High
Issue	There is not sufficient user feedback	Minor		Moderate

## Upcoming Activities

The remaining exercises and activities that the team has planned:

- Make a version 2 of the Figma Prototype
- Improve the release plan
- Writing the Report

## Conclusion

The team stays up to date on incoming assignments, asks for and implements feedback given to each exercise, redoing them, if necessary, to ensure quality. If this mindset persists, there should be no complications in finishing the project on time, delivering high quality documentation, and meeting the expectations of the stakeholders.

## **9.2 List of Features**

## **LinkedGym List of Features**

- User account system
  - Separation between coach and trainee accounts
  - Login with social media accounts
  - Sign up/Sign in functionality
- Coach Explore Page
  - Display coach's promotion materials
  - Unique landing page for each coach
- Chat
  - Real-time messaging
  - Real-time video chat
  - File sharing
- Workout Builder
  - Create a custom workout plan for trainee from database of exercises or custom exercises
  - Calendar integration
  - Save, Copy and Reuse workouts
- Personal Data Tracking
  - Log workouts
  - Log nutrition
  - Log sleep
  - Insights for both the trainee and the coach
- User Database
  - User Preferences
  - User Workouts
  - User Fitness Goals
  - User Qualifications
  - User Habits
- Stripe Integration
- User Analytics Page
  - Upcoming workouts
  - Last logged nutrition and sleep
  - Muscle groups trained in the last workout
- Calendar Page
  - Upcoming workouts
  - Client meetings