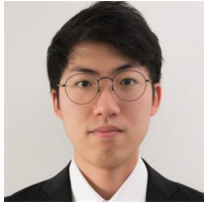




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Redback

Team Redback

Requirements	Timeline	Meetings	Decisions
Product Backlog	Presentation	Ceremonies	

Name	Preferred Name	Photo	Contact	Current Role
GUO YI LEE	Gant		Glee3@student.unimelb.edu.au	Product Owner
Yu Wu	Felix		ywu13@student.unimelb.edu.au	Developer
Qi Li	Leon		lq14@student.unimelb.edu.au	Developer
Jiacheng Zhang	Gary		jjachzhang2@student.unimelb.edu.au	Developer
Sirui Liang			sirliang@student.unimelb.edu.au	Developer

Useful Links

Github: <https://github.com/COMP90082SM12022/GA-Redback>

Coach Ollie info: <https://vic.tri-alliance.com/about/coaches/>

Garmin API info: <https://developer.garmin.com/fit/overview/>

CoachingMate info: <https://coachingmate.com/>

Garmin Watch info: <https://www.garmin.com/en-AU/c/wearables-smartwatches/>

Requirements

This page is for project requirements.

- [Background](#)
- [Motivational Model](#)
- [Personas](#)
- [User Stories](#)
- [Plan](#)

Background - Redback

Project overview

This project is to integrate CoachingMate with the Garmin API and UI to allow athletes to be able to connect their Garmin devices with CoachingMate.

CoachingMate is a health and fitness application that transforms methods and practices of interaction between how coaches and athletes interact with one another. CoachingMate provides an array of services to coaches, allowing them to efficiently view and manage their athletes. Features such as visibility in income revenue, managing their fitness schedules, easy drag and drop workout builder system to allow coaches to create workout programs seamlessly.

To further elevate the CoachingMate capability, CoachingMate is focusing on tracking the fitness stats of their athletes, specifically their physical activity and details during their training program period. This would be achieved by having the athlete wear a Garmin watch, a fitness tracker watch, which will track the physical activity, in terms of activity levels, heart rates and other details. The Garmin watch data is being transferred over to the Garmin database servers.

CoachingMate will tap on this information through the Garmin API, which will provide the user/coach with the information required to analyse and track the athlete's performance, which would be displayed in a form of dashboard or visual analytics.

Vision Statement / Goal

In-scope :

The final product of this group is to achieve transferring data from Garmin watches to the CoachingMate backend by using the Garmin APIs, using the Garmin developer resources.

The key criteria of this project is for users to enable seamless data transmission from their Garmin watch to the CoachingMate dashboard.

Key functions to be achieved including:

- The connection is seamless and once data is synchronised the updates will automatically appear on the CoachingMate dashboard.
- The users can decide what data from Garmin devices they want to share with CoachingMate.
- Connection and disconnection will be instant with just a click.
- The user will be notified when data synchronisation with CoachingMate succeed or failed.
- Data transmitted will be stored in different databases for data access control purposes planned for later stages. (TBC)

Out-scope :

Once the API has been created successfully, the focus of the project would shift toward working on improving the user interface of the CoachingMate dashboard, including better visualisation of the data collected from the Garmin API, data access control and displaying of multiple users' data in one dashboard.

Business Case

Provides an in-depth analysis – currently coaches using CoachingMate do not have access to any of the athlete's performance data

Improves coaching advice – coaches can use the athlete's performance data to provide a more detailed and targeted training program depending on the performance

Easier accessibility – by integration into CoachingMate, the coaches do not require to individually access each athlete's Garmin data on their personal accounts just to view the information but can view easily on the CoachingMate platform.

Motivational Model - Redback

Versions

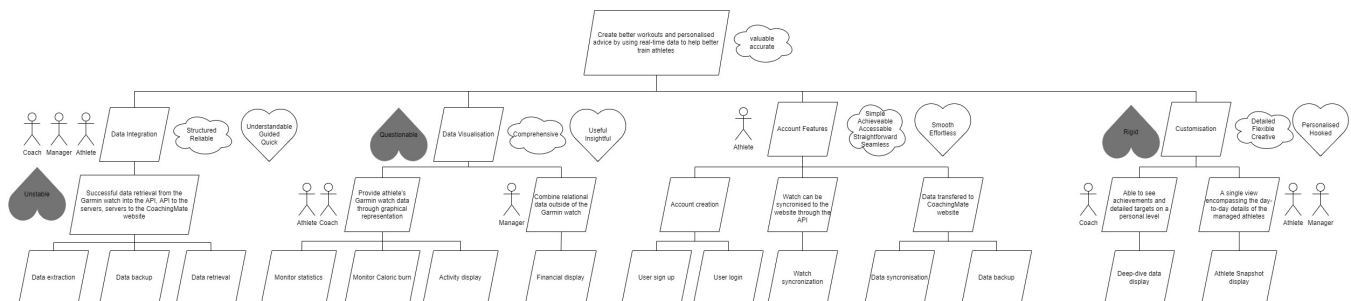
Version ID	Description	Date
2.0	The second version based on after consulting the supervisor, Hanna, and the deeper understanding of the project with Edwardo	2022-03-26
1.0	The first version is based on an initial understanding of the project and client meetings.	2022-03-23

Version 2.0

Do-Be-Feel-Who List - Version 2.0

Do			Be	Feel	Who
Data Integration	Successful data retrieval from the Garmin watch into the API, API to the servers, servers to the CoachingMate website	Data extraction Data backup Data retrieval	Structured Reliable	Understandable Guided Quick	Athlete, Coach, Manager
Data Visualisation	Provide athlete's Garmin watch data through graphical representation	Monitor statistics Monitor Caloric burn Activity display	Comprehensive	Useful Insightful	Athlete, Coach Athlete, Coach Athlete, Coach
	Combine relational data outside of the Garmin watch	Financial display			Manager
Account Features	Account creation	User sign up User login	Simple Achievable	Smooth Effortless	Athlete
	Watch can be synchronised to the website through the API	Watch synchronization	Accessible		
	Data transferred to CoachingMate website	Data synchronization Data backup	Straightforward Seamless		
Customisation	Able to see achievements and detailed targets on a personal level	Deep-dive data display	Detailed Flexible	Personalised Hooked	Athlete Coach, Manager
	A single view encompassing the day-to-day details of the managed athletes	Athlete Snapshot display	Creative		

Goal Model - Version 2.0

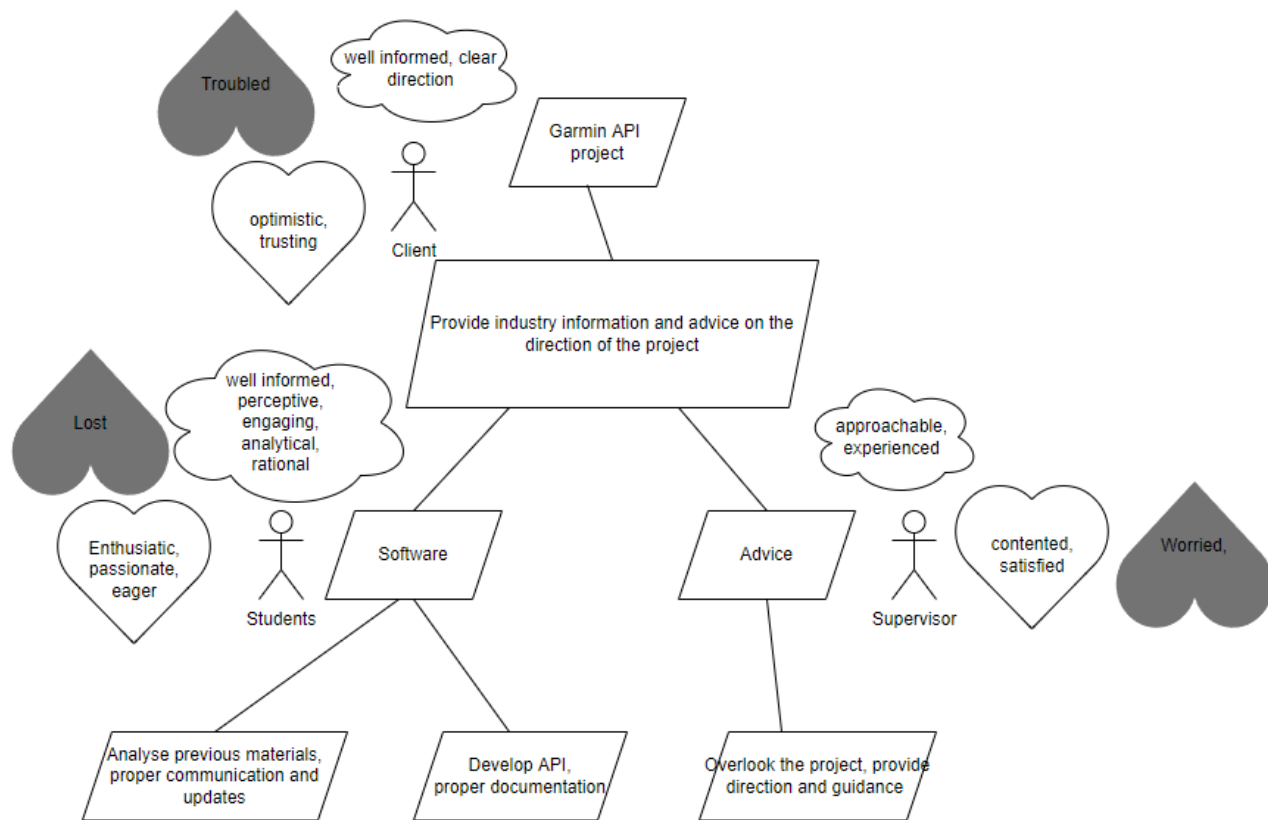


Version 1.0

Do-Be-Feel-Who List - Version 1.0


WHO	DO	BE	FEEL
Client	Provide industry information	well informed	optimistic
	advice on the direction of the project	clear direction	trusting
Students	Analyse previous materials	well informed	enthusiastic
	proper communication and updates	perceptive	passionate
		engaging	eager
		analytical	
		rational	
Supervisor	Overlook the project progress	approachable	contented
	provide direction and guidance	experienced	satisfied

Goal Model - Version 1.0



Personas - Redback

NAME	TYPE
Jack Brown	Athlete



Quote

“
Only by constantly recording your sports performance can you make a better workout plan.
”

Motivations

As an athlete, Jack needs to plan his own training and keep track of the hours of training each day. Recently, he heard about a website called Garmin. The website can help athletes make training plans and record training time. The website offers its app, which can be used on a phone or smartwatch. Jack thinks Garmin's products are very convenient and allow him to focus more on training. He decided to sign up for its membership and download the app on his smartwatch.

Demographic

Male 26 years

Sydney

Single

Athlete



Goals



- To efficiently manage his training program.
- To record the calories he burned during each exercise.
- To check his exercise history in a visualization way.
- After training, his performance will be digitized and can be viewed by him.



Frustrations

- The user interface is cluttered and he couldn't find the information he needed.
- The data could not be uploaded in time, and he could not immediately see his training results on the website.
- Unable to find the data or information he needs on the website (eg heat map, average heart rate).





Technology







Channels



UXPRESSIA

This persona was built in uxpressia.com

NAME

Scott Graham

Gym Manager



Demographic

♂ Male 30 years

📍 Vancouver, BC

Single

Gym Manager

Quote

“
I wish there is a tool that would allow me to assess whether the coaches are dutiful by monitoring the clients' training status.

I don't like analyzing many charts like a data scientist. It'd be better if the data visualization is as simple as possible
”

Motivations

As a gym manager, Scott is seeking a tool that can help him manage the gym. Although the gym itself has a management system, the system is unable to track the clients' training feedback and whether the coaches are dutiful.

In addition, Scott needs to use separate software in his work. For example, he needs to use financial software to manage the gym's finance and human resource software to manage the clients and coaches. Therefore, Scott wishes there is software that can combine these functions.

Goals

- To track the clients' and coaches' training status
- To schedule the training program
- To assign the clients to coaches
- To manage the gym's finance, such as clients' fee and coaches' income

Frustrations

- The system did not update the training and finance status in time
- The data visualization is not easy to understand
- The security of the account as the manager

Technology



Channels



NAME

Angelina Johnson

Coach



Quote

I always strive to help my athletes achieve their full potential and meanwhile enjoy a positive experience!

Motivations

Angelina is now working as a coach in a sports training club in Melbourne for 2 to 3 years with specializations in multiple sports including swimming, body-building, running, and so on. Angelina regularly coaches 5 to 8 people per week, her clients are mostly white-collar workers.

Angelina is looking for a system where she can see a comprehensive list of athletes' performance data to make better coaching plans. Besides, she also expects to monitor the performance of all of her athletes in a collective view.

Demographic

Female 26 years

Melbourne

Single

Goals

- Track athletes' health and performance data transformed from smart devices.
- Develop and update training plans based on data collected to achieve more effective coaching outcomes.

Frustrations

- Lack of clear demonstration of the performance data from smart devices.
- Lack of interaction with data collected.
- Switching among different athletes' data is inconvenient.

Technology



Channels



UXPRESSIA

This persona was built in uxpressia.com

User Stories - Redback

Versions

Version ID	Description	Date
1.0	The first version is based on an initial understanding of the project and client meetings.	2022-03-25

In-scope

Epics	User	User Stories	MoSCoW Priority	Story Points(1 hour/pt)
A1	Athlete	As an athlete, I am able to create an account, so that I can view and edit my profile and devices. <ul style="list-style-type: none"> The user can create the account, set the password and username. The user can reset the password, in case the password is forgotten. The user account can bind with multiple sports watch. The user can unbind with any sports watch they currently have. 	Must have	30
A2	Athlete	As an athlete, I am able to sync the data from the watch to the website when I finish the workout so that I can govern my exercise data easily. <ul style="list-style-type: none"> The app should have a button, that can synchronic the data from the phone to the user profile. The watch has backup, in case the time when the connection is unavailable. The watch can automatically resume the synchronization if wireless is available again. 	Must have	30
A3	Athlete	As an athlete, I want to get a notification when the transition is completed otherwise know the fault type. <ul style="list-style-type: none"> When the synchronization succeeds, there will be a notification shown on the phone. When the synchronization fault, the fault type can be shown on the phone. 	Should have	6
A4	Athlete	As an athlete, I want to view my sports data on my website profile, so that it is easier for me to see what degree I achieved and dig into details to check my performance on different targets.	Must have	24
C1	Coach	As a coach, I want to see the workout data of my athletes, so that I can monitor the athlete statistic.	Should have	12
M1	Manager	As a manager, I want to regulate the Garmin watches data type as JSON, so that allows more types of sports watch to be extended. <ul style="list-style-type: none"> The features can be extracted to different queries. The format of data can be unified when developed. 	Should have	10
M2	Manager	As a manager, I want to assign different panel views for users based on user type, so that users can get the information they need. <ul style="list-style-type: none"> The database has three user types: <ul style="list-style-type: none"> The normal athlete can only view his workout history data. The coach can only view a set of athlete's data from his workout group. The manager can view all-athletes data, and adjust the content of data, i.e change, move, delete. The database should allow the queries option and return without failure to request. 	Should have	28

Out-scope

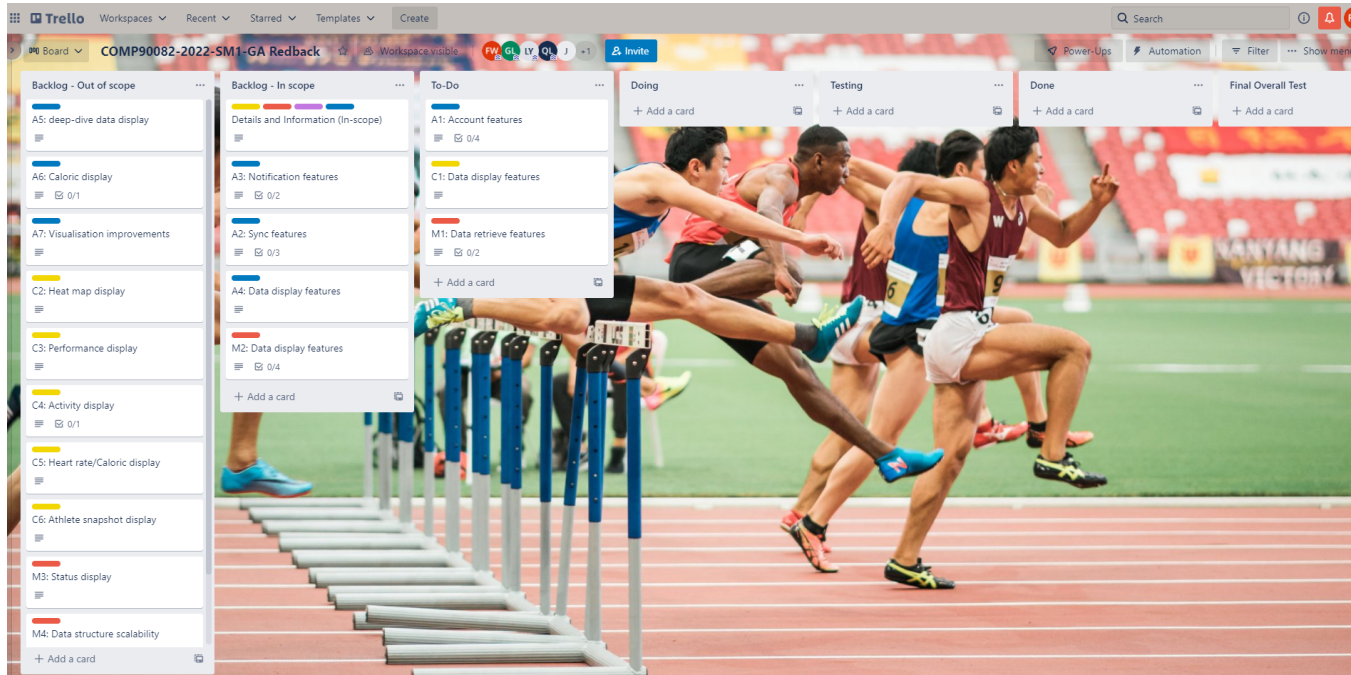
Epics	User	User Stories	MoSCoW Priority	Story Points(1 hour/pt)
A5	Athlete	As an athlete, I want to be able to know the intricate exercise statistics details of my exercise history that are displayed in a visualization way.	Must have	10
A6	Athlete	As an athlete, I want to know how many calories I used during each exercise so that I can know and control the exercise plan. <ul style="list-style-type: none"> The website can automatically calculate the calories consumed, based on corresponding sports data. 	Should have	5
A7	Athlete	As an athlete, I want to view my exercise history in a visualization way, so that I can get to know my status in an easily accessible way.	Should have	15
C2	Coach	As a coach, I want to be able to see the heat map of the athletes when they are running/cycling so that I can better manage their training.	Should have	8
C3	Coach	As a coach, I want to compare the performance of my athletes in the specific training period, so that I can track the performance of each athlete.	Should have	5

C4	Coach	As a coach, I want to be able to see the distance of athletes when they run/bike/swim so that I can better manage their training. <ul style="list-style-type: none">• The website can extract the distance data from the database, which corresponds to the workout timezone.	Must have	10
C5	Coach	As a coach, I want to be able to see an athlete's heart rate, exercise time, and calorie burn as they work out so that I can better manage their training.	Should have	10
C6	Coach	As a coach, I want to be able to see all my athlete's performance data in a collective view so that it is easier to check the athletes' status.	Should have	5
M3	Manager	As a manager, I want to see the status of all the coaches and athletes so that I can track the athletes' feedback and assess whether the coaches are dutiful.	Must have	5
M4	Manager	As a manager, I want the product to be scalable and robust so that historical data can be inherited when users use different types of smart products.	Should have	10
M5	Manager	As a manager, I want the software to support financial and human resource management so that I only need to use other software.	Should have	10

Plan (Trello) - Redback

This is the Trello page of team Redback: <https://trello.com/b/NcHpFGZF/comp90082-2022-sm1-ga-redback>

Sprint1:



Meeting Notes Directory

Supervisor Meetings

[Template for Supervisor Meetings \(2022-03-18 Supervisor Meeting Redback\)](#)

[2022-03-10 Supervisor Meeting Redback](#)

[2022-03-17 Supervisor Meeting Redback](#)

[2022-03-24 Supervisor Meeting Redback](#)

[2022-03-31 Supervisor Meeting Redback](#)

[2022-04-07 Supervisor Meeting Redback](#)

[2022-04-14 Supervisor Meeting Redback](#)

[2022-04-21 Supervisor Meeting Redback](#)

[2022-04-28 Supervisor Meeting Redback](#)

[2022-05-05 Supervisor Meeting Redback](#)

[2022-05-12 Supervisor Meeting Redback](#)

[2022-05-19 Supervisor Meeting Redback](#)

[2022-05-26 Supervisor Meeting Redback](#)

[2022-06-02 Supervisor Meeting Redback](#)

Client Meetings

[Template for Client Meetings \(2022-03-19 Client Meeting Redback\)](#)

[2022-03-18 Client Meeting Redback](#)

[2022-03-25 Client Meeting Redback](#)

[2022-04-01 Client Meeting Redback](#)

[2022-04-08 Client Meeting Redback](#)

[2022-04-15 Client Meeting Redback](#)

[2022-04-22 Client Meeting Redback](#)

[2022-04-29 Client Meeting Redback](#)

[2022-05-06 Client Meeting Redback](#)

[2022-05-13 Client Meeting Redback](#)

[2022-05-20 Client Meeting Redback](#)

[2022-05-27 Client Meeting Redback](#)

[2022-06-03 Client Meeting Redback](#)

Team Meetings

[Template for Meetings \(2022-03-19 Team Meeting Redback\)](#)

[2022-03-19 Team Meeting Redback](#)

[2022-03-26 Team Meeting Redback](#)

[2022-04-02 Team Meeting Redback](#)

[2022-04-09 Team Meeting Redback](#)

[2022-04-23 Team Meeting Redback](#)

[2022-04-30 Team Meeting Redback](#)

[2022-05-07 Team Meeting Redback](#)

[2022-05-14 Team Meeting Redback](#)

[2022-04-16 Team Meeting Redback](#)

[2022-05-21 Team Meeting Redback](#)

[2022-05-28 Team Meeting Redback](#)

[2022-06-04 Team Meeting Redback](#)

Redback - Supervisor Meetings

2022-03-10 Supervisor Meeting Redback

Date

2022-03-10 Thursday 1:30pm - 2:00pm

Attendees

Guo Yi Lee

Yu Wu

Qi Li

Jiacheng Zhang

Sirui Liang

Hanna Navissi

And Boxjelly team members

Goals

Get in touch with the supervisor, introduce yourself and get to know your group members.

Discussion Items

Time	Item	Who	Notes
20mins	Self-introduction	All/Hanna	1) Introduce yourself to other team members. 2) Get to know your group members.
15mins	Confirm next meeting time.	Redback team members	Communicated with team members. And set a weekly meeting time.
10mins	Confluence	All/Hanna	Ask supervisor about how to use Confluence.

2022-03-17 Supervisor Meeting Redback

Date

2022-03-17 Thursday 1:30pm - 2:00pm

Attendees

Guo Yi Lee

Yu Wu

Qi Li

Jiacheng Zhang

Sirui Liang

Hanna Navissi

Goals

Get in touch with the supervisor on Sprint 1 details and further clarification of questions in relation to Sprint 1.

Discussion Items

Time	Item	Who	Notes
15mins	Confluence Clarification	All	What parts require collaboration between teams; what parts does not require collaboration. It is mentioned that collaboration will be kept to a minimum, each team will be doing their own work and to be uploaded to the Confluence respectively. Even though there will be overlapping work (Background, goals), we will be doing work individually.
30mins	Tips on client meeting/ Personas	All /Hanna	What are we working towards? The GA group will be working on creating a working Garmin API and frontend dashboard creation. Moving forward steps and things to note on marking criteria Use the Github checkbox list as a reference and guidance on the marking scheme for Sprint 1.
30mins	Github depository	Gary /Felix	Questions about the past depository having problems accessing. The past depository has problems to be accessed, and Hanna is also facing the same problems, therefore this is put on hold until Eduardo updates the team on this, as the project was previously further improved and worked on under his supervision.

2022-03-24 Supervisor Meeting Redback

Date

2022-03-24 Thursday 1:30pm - 2:00pm

Attendees

Guo Yi Lee

Yu Wu

Qi Li

Jiacheng Zhang

Sirui Liang

Hanna Navissi

Goals

Show the supervisor our current work progress and ask questions.

Discussion Items

Time	Item	Who	Notes
20mins	Show work progress	All/Hanna	Show the background documents, personas, and user stories.
10mins	Ask for advice	All	Ask if the current sprint1 documents are correct and if they need to be revised.
10mins	Contrast checklist	All	Check if there are still unfinished jobs on the checklist.

Redback - Client Meetings

2022-03-18 Client Meeting Redback

Date

2022-03-18 Friday 1:30pm - 2:00pm

Attendees

Guo Yi Lee

Yu Wu

Qi Li

Jiacheng Zhang

Sirui Liang

Hanna Navissi

Ollie Allan

And Boxjelly team member

Goals

Get in touch with the client, know their key requirements, design our user story from the meeting content

Discussion Items

Time	Item	Who	Notes
15mins	Project Brief	All /Hanna	1) Introduce the group member of all team to the client 2) Get Known with the background of the client company
10mins	Project BackGround	Client	They have put 2.5 years on this product and wait to be breasted, the previous work includes the calendar function on the workout, the search function on the calendar with multiple options, the visualization of running history, and so on.
20mins	Project Requirement	All /Hanna	The client wants to synchronic the exercise watch data with the website. For more specifications, the client shows a demo of an existing product. User can view their workout data in a visualization way, e.t.c, the time they used on work out, the heart rate, the calorie they burned, the blood pressure. They need our teammate to develop an API to sample data from the watch and show it in a user-friendly method at the user profile.
15mins	Ask /Anser time	All /Hanna	1) Set the next time meeting with the technical guy of the previous project. 2) Specify the client of the project, ask for more examples on the use case.

2022-03-25 Client Meeting Redback

Date

2022-03-25 Friday 12:10pm - 2:10pm

Attendees

Guo Yi Lee

Yu Wu

Qi Li

Jiacheng Zhang

Sirui Liang

Hanna Navissi

Eduardo Araujo Oliveira

Boxjelly Group

Goals

Meeting with Eduardo for more technical detail on the project.

Discussion Items

Time	Item	Who	Notes
20 mins	Garmin API	Eduardo	How does the Garmin API work? The user wears a Garmin watch doing activities. The Garmin App is installed on the user's phone. When the user finishes activities, the user can use the App to sync the data from Garmin watch to the website, Garmin Connect. There are some APIs that the partners can access some specific data from Garmin, such as Strava and 1000 Steps
10 mins	Test	Eduardo	We can do the test without Garmin Watch Garmin Connect allows us to import data through uploading files. Remember to delete the previous files because Garmin doesn't accept duplicate data.
10 mins	Connect Button	Eduardo	Our product is like create a single page that we can login/register, then implement a button to connect Garmin.
5 mins	Project Data	Eduardo	Check CM Internship[Project Data] We are supposed to consider which data is potentially needed in the further development.
15mins	Dashbo ard	Eduardo	If the APIs are doing well, we are suggested to create a dashboard that visualizes the data by some charts.

Redback - Team Meetings

2022-03-19 Team Meeting Redback

Date

2022-03-19 Saturday 4:30pm - 5:00pm

Attendees

Guo Yi Lee

Yu Wu

Qi Li

Jiacheng Zhang

Sirui Liang

Goals

Discussion with Team

Discussion Items

Time	Item	Who	Notes
15mins	Confluence Clarification	All	Introduce team members to tasks that need to be done on Confluence.
30mins	Tips on client meeting/ Personas	Yu Wu, Jiacheng Zhang, Sirui Liang	(1) Show team members the three completed personas. (2) Discuss and modify persona content.
30mins	Github depository	Yu Wu	(1) Create a project structure on Github. (2) Discuss and create a README file.