Snapshot 3.2 Week <WEEK-8> of Group <PFTC7REMOTE>

Personal Fitness Trainers Club

Tien Dat Le - a1730614

Zhao Ming Soh - a1751699

Tang Thieu Kien - a1738166

Zhi Tong - a1736023

Carlos Atis - a1731835

Yian Xie - a1702241

Quan Tang - a1758910

Jinhong Xiong - a1753701

Yutong Qu - a1738747

1. Product Backlog and Task Board

<u>Product backlog (From GitHub) - Pictures are ordered from left to right.</u>

21 Product Backlog

PT PART

Added by a1753701

As a personal trainer
I want to be able to register and login into the PTFC system by creating a PT profile
So that I can advertise my services to a broader audience

Acceptance Criteria

1. Page redirection (PT):
   Given: a personal trainer on the personal trainer profile page of the website
   When: they click on the home, profile (that includes change password and set availability buttons), the client (that includes the client profile picture) or message (that includes the inbox and send message buttons) buttons
   Then: they are redirected to that particular page

Added by a1738747

As a personal trainer,
I want to create a profile
So that I can show my skill sets to clients

Added by a1751699

As a Personal Trainer,
I should have a chat messaging facility
So that I can communicate with clients

Acceptance Criteria:

1. Messaging (PT)
   Given: a personal trainer on the personal trainer message page of the website
   When: the personal trainer clicks on to any of the existing messages contained in the inbox or the send message button
   Then: in the case of the existing messages, a reply box at the bottom of each message can be used for messaging and in the case of a send message button, a form containing a couple of input fields can be used to formulate a message to whoever was specified.

Added by a1730614

As a personal trainer
I want to be able to edit my profile information
So that the information can be corrected or updated

Acceptance Criteria :

1. Personal Details and Password modification(PT):
   Given: a personal trainer on the personal trainer profile page of the website
   When: they click onto any of the input fields in the personal detail page or change password page
   Then: he/she can key in new information and update it via the save button at the bottom of each page.

Added by a1738747

As a personal trainer
I want to be able to set my availability
So that clients can make bookings accordingly

Acceptance Criteria:

1. Set availability (PT):
   Given: a personal trainer on the personal trainer profile page of the website
   When: they click on the add or delete button
   Then: the personal trainer can insert a new schedule to each of the relevant days' box based on the selected week and they can also delete any of the selected schedule boxes.

Added by a1738747

As a Personal Trainer,
I should have a client management page
So that I can manage my clients

Acceptance Criteria :

1. View Client Profile (PT)
   Given: a personal trainer on the personal trainer client page of the website
   When: the personal trainer clicks onto the profile picture of its client
   Then: they are redirected to the client's profile page

2. Search Client (PT)
   Given: a personal trainer on the personal trainer client page of the website
   When: the personal trainer clicks onto the search bar
   Then the personal trainer will be prompted to key in the client's name that he/she wished to search for and that client will appear as the first result

Added by a1751699

3. Client Management (PT)
   Given: a personal trainer on the personal trainer client page of the website
   When: the personal trainer clicks onto the rubbish bin icon or the message icon
   Then: in the case of the rubbish bin icon, the client will be notified that they are dropped from his/her workout session, in the case of the message icon, the PT will be redirected to the send message page.

Added by a1751699

As a personal trainer
I want to be notified of the client's bookings
So that I can start my business

Acceptance Criteria:

1. Client's booking request Notification (PT):
   Given: a personal trainer on the personal trainer message page of the website
   When: the client book a session with a particular personal trainer on the session booking page
   Then: the personal trainer will be notified via a message containing the booking request details.

2. Acceptance/Rejection of a client's booking request (PT):
   Given: a personal trainer on the personal trainer message page of the website
   When: the personal trainer clicks on the accept or reject button
   Then: in the case of accepting, the client will be added to the PT client page for management and in the case of rejecting, the client will be notified that their booking request was rejected.

Added by a1751699

CLIENT PART

Added by a1753701

As a client
I want to be able to register and log into the PTFC system
So that I can utilise the system afterwards

Added by a1738747

As a Client,
I want to chat with potential PTs
So that I can communicate with them

Acceptance Criteria

1. Messaging:
   Given: a client is on the messaging page
   When: the client clicks on to any of the existing messages contained in the inbox or the send message button
   Then: in the case of the existing messages, a reply box at the bottom of each message can be used for messaging and in the case of a send message button, a form containing a couple of input fields can be used to formulate a message to whoever was specified in the 'to' field.

Added by a1730614

2. Personal Details and Password Modification (Client):
   Given: a client that is on the client profile page of the website.
   When: they click onto any of the input fields in the “edit profile” page or “change password” page.
   Then: the client can key in new information and update it via the save button at the bottom of each page.

Added by a1751699

As a client
I want to see a list of PTs
So that I can book a session with that PT

Acceptance Criteria:

1. Hiring a personal trainer:
   Given: a client is on the search results page
   When: he/she clicks onto the hire button
   Then: he/she will be directed to an application form and upon completion and submission, a booking request will then be sent to the inbox of the relevant personal trainer

2.Searching (Client):
Given: a client that is on the booking page/search results page/manage session page of the website.
(Booking Page) -
When: he/she searches for a particular personal trainer, ratings, pricing or muscle groups in the search bar
Then: he/she will be directed to the search result page containing the corresponding information

Added by a1730614

As a client
I want to review a booking
so that I can provide feedback or rate that PT

Added by a1751699

ADMIN PART

Added by a1753701

As an administrator
I want to see all incoming PT registration requests
So that I can approve or reject them

Added by a1738747

As an Admin, I wanna see all relationship between users and personal trainers. Of course I can edit them

Added by a1753701

As an ADMIN,
I want to have a dashboard
So that I can manage all PTs and clients

Added by a1730614

As an administrator
I want to see all registered users (PTs and Clients)
So that I can suspend or activate them

Added by a1738747

As an Admin, I wanna see popularity of each personal trainer(Show a sequential list)
So that I can rank them

Added by a1753701

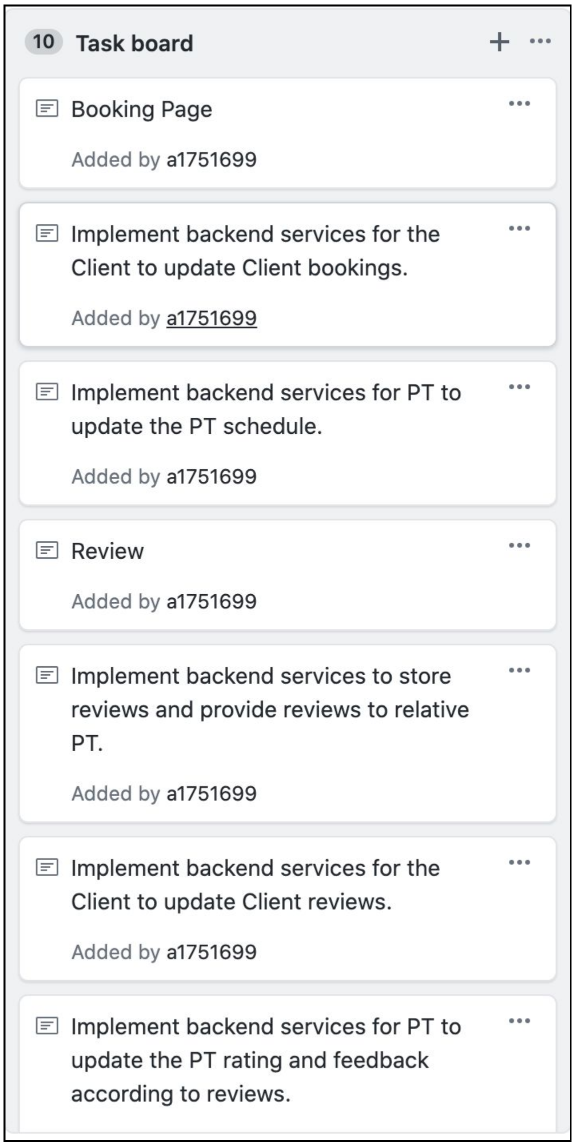
As an Admin, I wanna edit timetable for each PT so that both User and PT can better plan their time

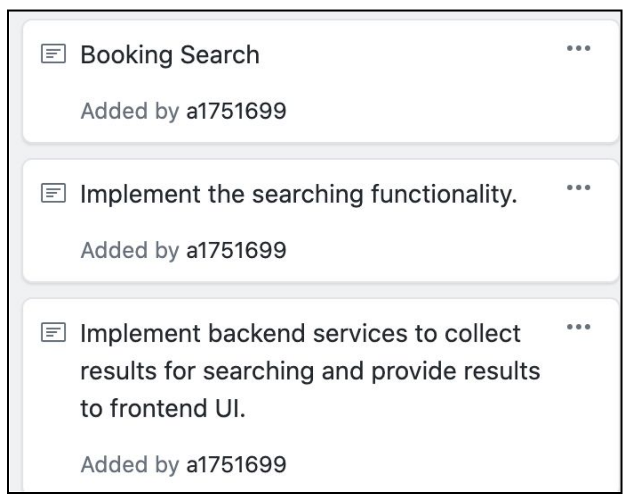
Added by a1753701

Word Version gives more clarity to the entire product backlog:

ID	As a...	I want to be able to...	So that...	Priorit y	Sprint	Status
1	Personal Trainer	I want to be able to register and login into the PTFC system by creating a PT profile	I can advertise my services to a broader audience	Must	1	Done
2	Personal Trainer	create a profile	I can show my skill sets to clients	Must	1	Done
3	Personal Trainer	set my availability	clients can make bookings accordingly	Must	1	Done
4	Personal Trainer	edit my profile information	the information can be corrected or updated	Must	1	Done
5	Personal Trainer	have a chat messaging facility	I can communicate with clients	Must		To be Started
6	Personal Trainer	have a client management page	I can manage my clients	Must		To be Started
7	Personal Trainer	be notified of the client's bookings	I can start my business	Must		To be Started
8	Client	register into the PTFC system	I can log into the system afterwards	Must	2	Done
9	Client	chat with potential PTs	I can communicate with them	Must		To be Started
10	Client	create a profile	I can see my progress and personal information	Must	2	Done
11	Client	see a list of PT	I can book a session with that PT	Must	3	In progress
12	Client	I want to review a booking	so that I can provide feedback or rate that PT	Could	4	To be Started
13	Administrator	see all incoming PT registration requests	I can approve or reject them	Should		To be Started
14	Administrator	see all relationship between users and personal trainers	I can edit them	Should		To be Started
15	Administrator	have a dashboard	I can manage all PTs and clients	Must		To be Started
16	Administrator	see all registered users (PTs and Clients)	I can suspend or activate them	Should		To be Started
17	Administrator	see popularity of each personal trainer (Show a sequential list)	I can rank them	Should		To be Started
18	Administrator	edit timetable for each PT	both User and PT can better plan their time	Should		To be Started

Taskboard (From GitHub)





6 In progress

Booking Page

Added by a1751699

Implement Client's booking functionality

Added by a1738747

Implement backend services to store bookings and provide bookings to relative PT.

Added by a1751699

Review

Added by a1751699

Implement frontend UI for Client to review bookings.

Added by a1751699

Implement the functionality for Client to provide a review of a booking.

Added by a1751699

2 Done For Sprint 3

Change the PT set availability implementation.

Added by a1751699

Implement Client's Booking backend route.

Added by a1751699

Word Version of the task board:

To Do	Doing	Done
(Booking Page) • Implement backend services for the Client to update Client bookings. • Implement backend services for PT to update the PT schedule. (Review) • Implement backend services to store reviews and provide reviews to relative PT. • Implement backend services for the Client to update Client reviews. • Implement backend services for PT to update the PT rating and feedback according to reviews. (Booking Search) • Implement the searching functionality. • Implement backend services to collect results for searching and provide results to frontend UI.	(Booking Page) • Implement Client's booking functionality • Implement backend services to store bookings and provide bookings to relative PT. (Review) • Implement frontend UI for Client to review bookings. • Implement the functionality for Client to provide a review of a booking.	• focus on initial report finish it ASAP • Set up Nodejs (Express) server • Set up MongoDB database • create ER model • Connect Nodejs with MongoDB • Design home page • Design login page for PT • Design sign-up page • Design PT's profile page • Design must be given before this weekend • Implementing login page for PT • Implementing sign-up page for PT • Implementing home page for PT • create data plan (list all route that we are going to use) • Implementing PT's profile page
		• Design the PT booking page for the client • Design the client Home profile page • Design the client User profile page • Design the client message page • Implement Client's profile page
		• Change the PT set availability implementation • Create the data plan for Client • Implement Client's Booking backend route.

2. Sprint Backlog and User Stories

Sprint backlog (From GitHub):

As a client
I want to see a list of PTs
So that I can book a session with that PT

Acceptance Criteria:

1. Hiring a personal trainer:
   Given: a client is on the search results page
   When: he/she clicks onto the hire button
   Then: he/she will be directed to an application form and upon completion and submission, a booking request will then be sent to the inbox of the relevant personal trainer

2.Searching (Client):
Given: a client that is on the booking page/search results page/manage session page of the website.
(Booking Page) -
When: he/she searches for a particular personal trainer, ratings, pricing or muscle groups in the search bar
Then: he/she will be directed to the search result page containing the corresponding information

Added by a1738747

As a client
I want to review a booking
So that I can provide feedback or rate that PT

Added by a1738747

User Stories and Related Tasks Selected for the Current Sprint (some for the next Sprint):

User Stories	Related task
1. As a client, I want to see a list of personal trainers after searching, so that I can book sessions with personal trainers.	1. Implement frontend UI for displaying results after searching. 2. Implement the searching functionality. 3. Implement backend services to collect results for searching and provide results to frontend UI.
2. As a client, I want to make bookings with personal trainers, so that I can reach my fitness goals with personal trainers.	1. Implement frontend UI for booking. 2. Implement the booking functionality. 3. Implement backend services to store bookings and provide bookings to relative PT. 4. Implement backend services for the Client to update Client bookings. 5. Implement backend services for PT to update the PT schedule.
3. As a client, I want to review a booking, so that I can provide feedback or rate that PT.	1. Implement frontend UI for Client to review bookings. 2. Implement the functionality for Client to provide a review of a booking. 3. Implement backend services to store reviews and provide reviews to relative PT. 4. Implement backend services for the Client to update Client reviews. 5. Implement backend services for PT to update the PT rating and feedback according to reviews.

3. Definition of Done

Design reviews -

a. It has to be minimalistic and conform to all of the user stories provided in each of the Sprint.

   i. **(Personal Trainer) Set Availability Page -**

A. A small dashboard on the left hand side of the page that can contain the "Edit Profile", the "Change Password" and the "Set Availability" redirecting buttons/links.
B. A weekly input field that contains input boxes labelled from Sunday to Monday and an "Add" button that allows the personal trainer to add on his/her own time slots.
C. Added time slots will appear in the right hand side of each of the input boxes and a "X" symbol will be associated with each of the added time slots for deletion.

ii. **Booking page** - It should have the following things and functionalities:

a. A small dashboard on the left-hand side of the page that contains the Booking and Manages Booking buttons for redirection.
b. **(Whenever one is redirected to the booking page - Default Page)** - One would see a search bar for searching personal trainer, ratings, price and muscle groups.
c. **(Once a search has been made)** - One would be directed to a page showing the search results. In this page, one would be given a series of personal trainers with their relevant information such as their names, contact details, spoken languages, pricing and muscle group specializations. A search bar and three dropdown filters that consist of ratings, price and muscle groups.
d. Check availability and a hire button on the bottom right corner of each successive personal trainer box.
e. **(In the check availability page)** - Show the weekly availability of the selected personal trainer.
f. (**In the booking session form page)** - An application form that has the "muscle groups" input field, "types of workout" select field, "client's weight" and "client's height" input fields, "personal medical history" textbox, "Your Goal" textbox, "Session Start Date, Time, Duration and Interval" select fields (Extendable), "Session End Date" select field and "Location" input field and a submit button.
g. **(In the Manage Session Page) -** Shows the client's weekly booking session in a series of boxes. The boxes contain information such as the date, the time, the muscle groups, the type of workouts and the name of the pt that correspond to that session.

Coding -

a. In this sprint, the definition of done of coding has to conform to our agreed general coding standards laid out in the initial report, such as:
   i. Variable names that clearly indicate the purpose of the variable.

ii. Appropriate indentation and line breaks for readability that conform to all of the listed programming languages.
iii. Well-understood comments at the start of code explaining the purpose of the code.
iv. Consistent and applicable use of space to make code readable.

b. Some precise coding standards according to different techniques or languages:

i. HTML

a. All HTML documents must use two spaces for indentation and there should be no trailing whitespace.
b. Using lowercase element names and lowercase attribute names, for example, <body> rather than <BODY>.
c. Closing all HTML elements, for example, <p></p>.
d. Quoting attribute values.
e. Trying to avoid too long code lines for better readability.
f. Avoiding to add blank lines, spaces, or indentations without a reason for the better readability.

ii. CSS

a. The name of a selector should be self-descriptive and readable.
b. Trying to reduce the use of inline-styles to make changes on styling easier.
c. Using shorthands properties to help to reduce the lines of rules.
d. Trying to organise the CSS code by using the BEM methodology, which is a naming convention and stands for Block Element Modifier.

iii. React

a. Avoiding to add non-sense React components and making components as short as possible.
b. Components which are at the same level of abstraction should be together.
c. Trying to reduce the number of props to a minimum.

Acceptance Testing -

a. The webpage functions and features must work as stated in the acceptance criteria for each of the user stories.

i. Personal Trainer Set Availability Page -

1. <u>Set Availability (PT)</u>:
   Given a personal trainer on the personal trainer profile page of the website.
   When they click on the add or ‘X’ button.
   Then the personal trainer can add on a new time slot to his/her selected weekly timetable and the personal trainer can also remove the selected time slot.

ii. Client Profile Page -

1. Page redirection (Client):
   Given a client that is logged into his/her account on the Website
   When the client clicks on:
   a. any one of the links in the navigation bar that includes the home logo, the profile symbol that acts as a drop-down menu with logout as an option, home profile page, profile, booking, messages, calendar(optional) and support links.
   b. one of the buttons in the small dashboard residing in the top left corner of the:
      - profile page
        - "edit profile" button is set as the default page.
        - "change password" button
      - message page
        - the "inbox" button is set as the default page.
        - the "send message" button
      - booking page
        - The "booking" button
        - The "Manage Session" button
   c. Search results page
      - The profile picture of the PT
      - The "Check Availability" button
      - The "Hire" button

   Then they are redirected to that particular page.
2. Searching (Client):
   Given a client that is on the booking page/search results page/manage session page of the website.
   (Booking Page) -
   When he/she searches for a particular personal trainer, ratings, pricing or muscle groups in the search bar
   Then he/she will be directed to the search result page containing the corresponding information
   (Search Results Page) -
   When he/she searches for a particular personal trainer, ratings, pricing or muscle groups in the search bar
   Then he/she will be given a list of personal trainers that correspond to the searched information
   (Manage Session Page) -

When he/she searches for a particular booked session via date, time, the muscle groups or the type of workouts
Then he/she will be given a list of the booked sessions that corresponds to the searched result.

3. Hiring a personal trainer:
   Given a client is on the search results page
   When he/she clicks onto the hire button
   Then he/she will be directed to an application form and upon completion and submission, a booking request will then be sent to the inbox of the relevant personal trainer
4. Filtering Search Results:
   Given a client is on the search results page
   When he/she clicks onto the ratings, pricing or the muscle groups dropdown menu and selects any one of the options
   Then he/she will be given a list of personal trainers that correspond to the filter options (This happens every time an option is selected)
5. Viewing the availability/personal details of the Personal Trainer:
   Given a client is on the search results page
   When he/she clicks onto the check availability button/the profile picture of the PT
   Then he/she will be given a page containing the overview of the personal trainer's weekly schedule/personal details.
6. Client's Session Management :
   Given a client is on the manage session page
   Then he/she will be given a page containing the overview of the Client's booked sessions.
7. Messaging(Bookings/Communications):
   (Bookings) -
   Given a client is on the messaging page
   When a client submits a booking request form
   Then he/she will be directed to the messaging page more specifically the inbox to that particular personal trainer will be shown
   (Communications) -
   Given a client is on the messaging page
   When the client clicks on to any of the existing messages contained in the inbox or the send message button
   Then in the case of the existing messages, a reply box at the bottom of each message can be used for messaging and in the case of a send message button, a

form containing a couple of input fields can be used to formulate a message to whoever was specified in the 'to' field.

4. Summary of Changes

Since the last snapshot, we have decided to carry through a project plan that primarily focuses on the scheduling and risk management of our project. The project schedule is created for the sole purpose of mapping out our project timeline in a clearer and more conceivable fashion as shown in figure 1.1 below. This allows us to track the time period in which a particular task is estimated to be completed to conform to our intended project's deadline. There are no projects out in our world that are without any hiccups. Therefore the risk management is there to make sure that we have a contingency plan for risks that are to be expected from our project to ensure the quality and timeliness of our end product as shown in figure 1.2 below.

In the design aspect, we were given a few suggestions by the tutor on the usability of the personal trainer set availability feature as it was not intuitive enough. The tutor suggested us to add an extra layer of information that displays the availability that is recently added by the personal trainer in the vicinity of the set availability feature such that the personal trainer can have an immediate view of what has or has not been added. The revised set availability feature is shown in Figure 2.1 below. This is an initial draft of what it might look like.

In the documentation aspect, we have created a bunch of tasks on the task boards to reflect on the upcoming booking page implementations that we had forgotten to include in the previous snapshot. The tasks include the booking page search implementation, the booking page review implementation and the booking page booking functionality.

In the coding aspect, we improved some website UI pages and implemented the booking functionality in both the front-end and the back-end.

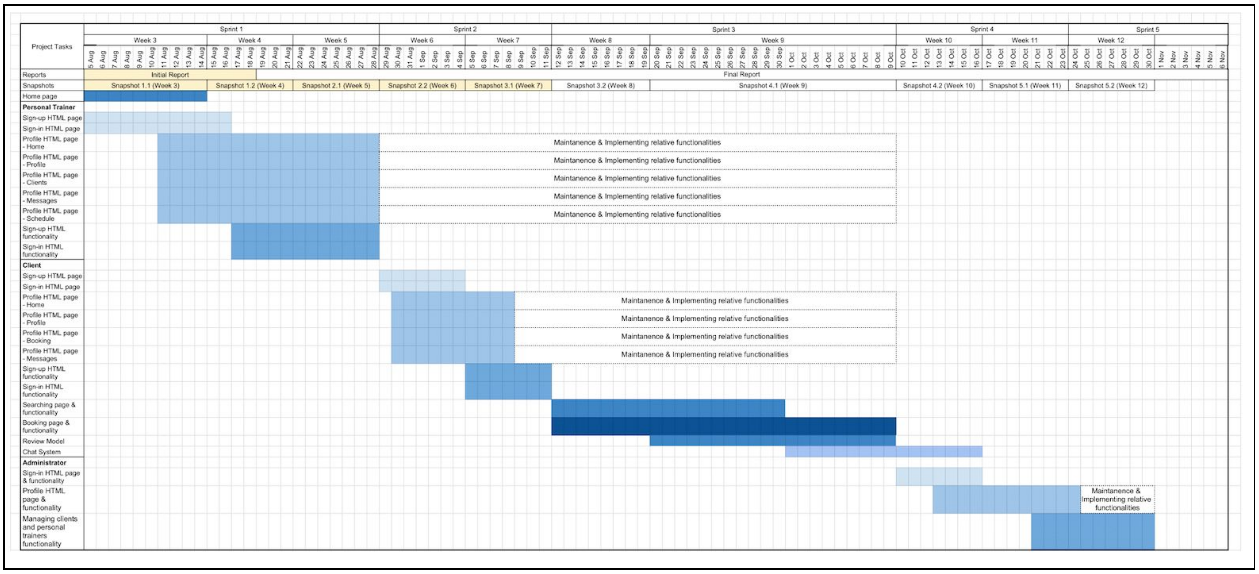


Figure 1.1 - Project Scheduling

Link to Figure 1.1 :

https://docs.google.com/spreadsheets/d/11JLi7HhUQyMlbwsjsFn6sFqEntHrYxqr3a59qS1XiLM/edit?usp=sharing

Risk Analysis

Risk Name	**Risk Description**	**Likelihood**	**Severity**
Member skills	The member in the development team does not have the required skill set to implement the project.	Low	Catastrophic
Member illness	Key members are ill at critical times in the project development phase.	Moderate	Serious
Requirement changes	Changes to requirements that require major design rework are proposed.	Moderate	Serious
Development time	The time required to develop the software is underestimated.	High	Serious
Customer understanding	Customers fail to understand the impact of requirements changes.	Low	Tolerable
Member training	Required training for a member is not available.	Moderate	Tolerable
Repair rate	The rate of defect repair is underestimated.	Moderate	Tolerable
Application size	The size of the application is underestimated.	High	Tolerable
Agreement	Team members cannot reach an agreement on either a decision about a technical thing or a non-technical thing.	Moderate	Serious
Team relationship	The relationship among team members is poor.	Low	Serious
Scrum master competency	The Scrum Master lacks the capability to facilitate team activities.	Moderate	Serious
Defect clearing	The team fails to clear reported defects in time.	Low	Tolerable

Figure 1.2: Risk Management

Link to Figure1.2 :
https://docs.google.com/document/d/1P7uBhe9TVjZTSNQClIGZ_PMl2XXg_hkbBLBvJNpaO60/edit?usp=sharing

Risk Analysis - continuation

Risk Name	Risk indicator	Strategy
Member skills	Lack of skills shown by the member	Provide useful resources for the member to learn the required skills.
Member illness	Lack of key staff	Reorganise the team so that there is more overlap of work and people therefore understand each other's jobs.
Requirement changes	Many requirements change requests	Derive traceability information to assess requirements change impact, maximise information hiding in the design.
Development time	Failure to meet the agreed schedule	List down all unfinished tasks and estimate the development time.
Customer understanding	Impossible requirements change requests.	Negotiate with the tutor or ask if there are some other possible ways to implement the requirement.
Member training	Lack of skills by shown by the member	Provide useful resources for the member to learn the required skills.
Repair rate	Failure to meet the agreed schedule	Plan the defect repair to the next development cycle and set its priority higher than other new implementations.
Application size	Failure to meet the agreed schedule	List down all functionalities in the application and estimate the application size.
Agreement	Poor staff morale	Cast votes on things that are disagreeable among the team members in order to make a final decision
Team relationship	Poor relationships amongst team member	Strengthen communication and improve the team relationship.
Scrum master competency	Incompetency showed by the senior management	Change the scrum master or provide him/her with advice on how to improve their leadership
Defect clearing	Failure to clear reported defects	Plan the defect clearing to the next development cycle and set its priority higher than other new implementations.

Figure 1.2: Risk Management

Link to Figure1.2 :
https://docs.google.com/document/d/1P7uBhe9TVjZTSNQClIGZ_PMl2XXg_hkbBLBvJNpaO60/edit?usp=sharing

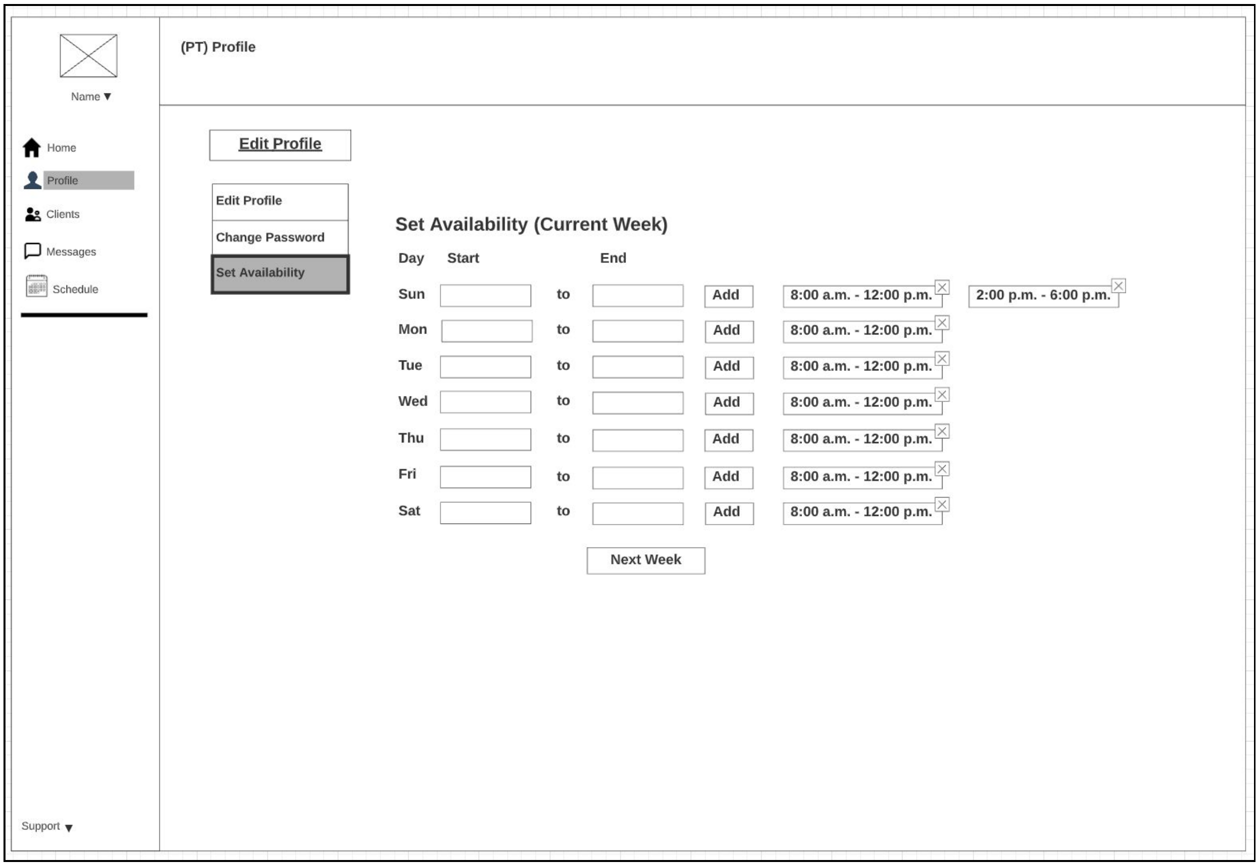


Figure 2.1: Personal Trainer Set Availability Page