REQUIREMENTS SPECIFICATION

User Stories

ID	User Story
1	*As someone who is busy* *I want to interact with a PT in my own time* *So that I can work out whenever I feel like.*
2	*As someone who has started going to the gym* *I want to see demonstrations of exercises* *So that I can use the correct form.*
3	*As someone who goes to the gym* *I want workout plans* *So that I can tailor my workouts based on my needs and abilities.*
4	*As I have recently dislocated my shoulder* *I want relevant exercises* *So that they can help to rebuild and strengthen my shoulder.*
5	*As a user* *I want to see visual demonstrations of workout exercises and text instructions* *So that I can correctly perform the exercises with additional guidance.*
6	*As a user* *I want to see realistic animations and real-time responses* *So that my experience is satisfactory.*
7	*As a user* *I want to set my own goals with the Personal Trainer* *So that I have targets to aim for.*
8	*As a user* *I want to have fitness tests* *So that I can monitor my progress.*
9	*As a user* *I want nutritional recommendations* *So that I can change my diet.*
10	*As a returning user* *I want the chatbot to recognise me when I open it* *So that my user experience is satisfactory.*
11	*As someone who is embarrassed to go to the gym* *I want to work out in my home* *So that I can lose weight.*
12	*As someone who is busy* *I want to have spinning classes in my own time* *So that I can complete the class in my own time.*

Functional Requirements

Functional Requirements detail actions or activities that the system can perform, along with actions the user can do on the system, for example...
"Can I log in?"

Non-Functional Requirements

Non-functional requirements describe how well a system should behave, for example...
"Can I log in within 5 seconds?"

MoSCoW Analysis

Must Have

Critical to current delivery timebox for it to be a success. If even 1 is not included, the project delivery should be considered a failure. They can be downgraded over time when new requirements are deemed more important.

Should Have

Important but not necessary for delivery in the current delivery timebox. They aren't often time-critical.

Could Have

Desirable but not necessary and could improve user experience or customer satisfaction for minimal development cost, if time and resources permit.

Won't Have (this time)

Agreed as least-critical or not time appropriate.

Key: PTB = Personal Trainer Bot.

ID	Title	Functional or Non-Functional?	Description	MoSCoW
1	Open Application	Functional	Can I open the application?	M
1.1	-	Non-Functional	Can I open the application 24/7?	M
1.2	-	Non-Functional	Can the application open and load within 30 seconds?	M
2	General Communication	Functional	Can I communicate with PTB?	M
2.1	-	Functional	Can PTB communicate with me?	M
2.2	-	Non-Functional	Can communication occur in real time?	M
2.3	-	Functional	Can PTB motivate the user to keep exercising?	S
2.4	-	Non-Functional	Does PTB look realistic?	M
3	Workouts	Functional	Can I request workouts?	M
3.1	-	Functional	Can PTB output workouts?	M
3.2	-	Non-Functional	Can PTB output workouts in real time?	M
4	Exercise Descriptions	Functional	Can I request exercise descriptions?	M
4.1	-	Functional	Can PTB output text exercise descriptions?	M
4.2	-	Non-Functional	Can the chatbot output descriptions in real time?	M

5	Muscles Affected	Functional	Can I request the muscles affected by the exercise?	M
5.1	-	Functional	Can the chatbot output the relevant muscles diagram?	M
5.2	-	Non-Functional	Can the chatbot output diagrams in real time?	M
6	Exercise Demonstrations	Functional	Can I request a demonstration of the exercise?	M
6.1	-	Functional	Can the chatbot play a video of the exercise?	M
6.2	-	Non-Functional	Can the chatbot play the videos in real time?	M
6.3	-	Functional	Can the virtual human animate to demonstrate the exercise?	C
6.4	-	Non-Functional	Can the virtual human animations happen in real-time?	C
7	User Profile	Functional	Can I create my own user profile?	C
7.1	-	Functional	Can the chatbot recognise different users?	C
7.2	-	Functional	Can I customise my profile by inputting gender and height/weight?	C
8	Nutritional Guidance	Functional	Can I ask for nutritional advice?	C
8.1	-	Functional	Can the chatbot provide nutritional advice?	C
9	Rehabilitation	Functional	Could I ask for rehabilitation exercises?	C
9.1	-	Functional	Can PTB output rehabilitation exercises?	C