Multimedia Appendix 4 – Table of Themes

Theme: Usability and functionality	Supporting Evidence	Participant: Beginner (B), Experienced (E), or S&C Coach (S&C)
Sub-Theme: Navigation: Need for a back button on	Things like, if I go in to how to use the app, if I want to go back I have to hit the back button, I can't just hit the logo button to go back. For me it's quicker to just use the tab button.	В
screen	I think when I was going through the videos as well. I had to tap out of the current video item to see another one. So I had to click on the toolbar, to go to the page where it counts your reps and then go back. So it was little counterintuitive thing. There could be a button to just navigate out from the video section but straight back to the info tab.	В
	Just because I'm not used to using android, I didn't know how to go back a step but other than that, no the app itself is very easy to navigate.	В
	Maybe as I'm coming from IOS to Android but there was no clear back button so you have to switch in and out or use the phone's button. On an iPhone, there'd always be something on the screen. That was one thing.	E
Interface: Need for status indicators.	I think the main reason for that is when I pressed buttons, particularly those ones, there is no status indicator. Maybe, just if there was a colour change or a slight indicator just to show that my action has been registered within the app. because when you don't do that, I will impatiently tap the same button until something happens which in this case caused crashes.	В
	It was when you got to the end of this (instructions), there was no clear indication that you had finished all the instructions, so just get rid of the arrow or something	E
Interface: Colour	But I think the three colour, 'green, orange and red' feedback was a really useful function as it let you know if you're doing something well, something a little bit off or doing something badly.	В
	The colour indication is good.	E
	No, so navigating through the app, I found very easy. I found the different colours to make different things stand out great. Like I said, during a session it would be very quick and easy to navigate through.	S&C
	Good colour. It's bright, it's colourful, it's attractive.	S&C
Functionality: rep counting	It was pretty accurate. Every so often there'd be an extra vibration. I don't know if it was measuring an extra one. At one point I thought it did measure an extra squat but then it didn't increment the next time I actually did a squat.	В
	I did, I felt the buzzes happened at the right time and that the rep count was correct at the end of the set. It was fine, because once you got used to it you knew the reps would tally up to the correct number but it was just a bit weird that when you start going to actually do the reps there could temporarily be a wrong number displayed. It was just a small thing, just freaked me out a little bit. I thought sometimes it could be quite sensitive. I don't know, when I was going through some of my reps and things like that, I found that sometimes it would count a rep early for me, even when I was just literally starting.	В
	When I did the first rep of each set, I wasn't sure if it was recording it, until I did the second rep. It would then say '2'. Sometimes it would take a couple seconds just to vibrate and register that I'd completed the repetition.	E
	When you start your set the rep count doesn't start from zero every time. It might start sometimes at 2 and then it kind of catches up.	E
	The rep counting was also a little bit slow at the start.	E
	Yes, each rep was counted. Obviously, there might be a small delay but every	S&C

	rep was counted accurately.	
Functionality:	It was really interesting how it could pick up on the bad ones and I know	В
Technique	there were definitely some bad ones in there!	
classification	I usually am very aware of my form for sets but there was a set of single leg	E
accuracy	squats where I didn't do the exercise well enough, and the app told me that I	
	hadn't and I wasn't aware of that but then when I thought about it the app	
	was definitely right.	
	The accuracy was good as well.	S&C
	Maybe one thing that it wasn't able to discriminate on that well was the last	S&C
	set I did of shallow bodyweight squats. Maybe the accuracy fell off if I was	
	doing something between a ¼ squat and a proper full squat. That was the	
	only one that was a tiny bit inaccurate.	
	It picked up really well on the deadlift stuff, the knee valgus in the lunge and	S&C
	single leg squats also.	
	It worked for everything except my single leg squats I'd say and maybe a	S&C
	little on the lunges.	
Usability: Sensor and	You can't disconnect the sensor but I guess that might be on purpose.	В
strap	How to wear the sensor?fine.	В
	There was just one thing regarding the orientation of the sensor. It was	В
	described really well but the way it's shown in the app, is not the same way	
	it looks when I look down at it on my leg, instead it's like when it's down on	
	the table in front of me, that's how it's depicted in the app but once I do	
	strap it on, I'm looking at it and just trying to work out is that the same as	
	the app says? I did figure it out, but it's just a thing that could have made it a little smoother for me.	
		S&C
	One thing that I thought was done well was just showing you how to place the sensor as well. That could be a big obstacle, if it wasn't shown properly.	SAC
	It would hinder people's ability to use it. It was done well.	
	It's good in that, I'm not conscience about wearing it, nobody can see it, it	В
	doesn't feel weighty or anything like that. I almost forget it's on my leg while	Ь
	I'm talking to you.	
	The sensor, seeing as you only have one of them would be quite easy to just	S&C
	strap on to your leg, assuming you wouldn't need tape or anything, that	33.3
	would be a disadvantage.	
	It's not cumbersome to set up currently but I think the strap should be	S&C
	improved.	
	In terms of the instructions on how to actually set yourself up and strap the	S&C
	sensor on to your leg, I had to read it a couple of times but I don't see how it	
	could be any more clear. I think it's just that I had to read it a couple of times	
	because it's just a foreign thing to me currently.	
	Setting up with this, placement etc. doesn't seem to difficult but if you were	S&C
	to have a number of people, it might be difficult.	
	You go in to sensor placement/orientation you can't go wrong there. If you	S&C
	do, you have an issue.	
Perceived impact of		
system use		
Impact on user's	It's also nice to have the feedback on how I'm actually doing things.	В
technique	Personally, when I go to the gym, I may even do a whole workout and not	
	know if things have gone correctly. It's pretty annoying to go home and be	
	thinking, 'Did I do my squats right today?', 'I'm not actually sure'.	
	I'd feel like there is a lot lower risk of injury because if you're doing things	В
	wrong you're going to injure yourself quite quickly.	
	I think it would help in my technique. I suppose you become more conscience	В
	of how you're doing something due to the feedback it gives you between the	
	sets. An outcome of using this app would definitely be better technique.	
	You are getting the benefit of technique correction I suppose, with the app	В

	as it is	
	as it is. For people who are just starting out with workout programmes and need technique and form, it's helpful. It's helpful also for advanced weightlifting individuals who are looking to prevent injury and that kind of thing I would say.	E
	I think it would actually benefit more experienced lifters/athletes more. They could basically just check that they are maintaining good technique all the time. Because if the app tells them they were wrong, they are more likely to be able to know the mistake they've been making so you just want to avoid it and track that improvement	E
	If you got this to somebody that was learning this exercises, I think it would be fantastic. They'll learn on a rep by rep basis if they're doing the correct motion.	E
	It would improve my technique.	E
	The benefits would be being able to go to a normal gym and actually keep an eye on your technique.	В
	It would be a motivational thing as well as obviously the benefit of getting help to correct yourself when you exercise poorly if needed.	В
	So the benefits to the user would be that they have a technique corrector if they were doing this work on their own.	S&C
	A lot of the glaring issues people have when staring weight training are addressed. If people even just think about 1 or 2 of the issues that the app lays out then their technique can improve immensely in a very short amount of time, just from these little bits of information.	S&C
	Well advantages would be, obviously you're avoiding injury as you go to the gym. This gives you a new source that can tell you if you're doing it right or wrong or not.	
Focus/Concentration /Motivation	Yeah, I think so; I think it makes you concentrate a lot more on what you're doing, as opposed to just going along with it.	В
	Particularly, with me, when I'm sometimes doing weights I lose focus, so it would help me keep track.	E
	It's like a motivational thing, when you get feedback it's easier to do it right.	В
	It would be a motivational thing as well as obviously the benefit of getting help to correct yourself when you exercise poorly if needed	В
	I also think, in terms of athlete questioning you could say 'were there any reps there that felt bad?' then compare that to the feedback that you get, rep by rep. Something like that, it might be a good indication to ask your athlete 'well why do you think that might have been bad? What do you think it picked up on?' That would open a nice area for questioning there.	S&C
	You have definitely got some players where the information goes in one ear and straight out the other. So it would be good for us in the sense that we could connect this up, we analyse what we want to know and they find out straight away if they've done a good or bad rep. So they can go, if they see they've done 30/40% poor form, they have to come see us and talk about it.	S&C
Reassurance/ Confidence	I guess a lot of people would be too shy to go directly to somebody for advice or maybe even just to take the advice from somebody who is willing to give it to them. Whereas, having it here on an app is quite a private way to get feedback.	S&C
	It could help me get over that initial anxiety that you have.	В
	The app would build people's confidence.	В
	Also, having something on my leg is really reassuring because I've always found that fitness apps on my phone that direct me to exercise, I almost feel like all the information there can be interpreted wrong and when I go to do the exercises I might be misinterpreting them. But whatever it is, just having this on my leg just makes me feel a little bit more confident in doing them and interpreting the information that is provided by the app	В
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Like little detaile like being able to made very		maximum. Like little details like being able to make your own.	В

	It would be really interesting to actually see the angles.	Е
	If it had specific comments, maybe, for example, 'your back was too arched'	E
	or 'not arched enough' , or the angle of your legs, how far down you should	
	be going.	
	A drop down with exactly what reps are good and bad would be useful.	Е
	More specific feedback, like the exact mistake you are making.	E
	I think seeing it across several variables. So rather than just good technique	S&C
	and bad technique.	
	We'd be quite keen on muscle fibre recruitment during an exercise. I'm not	S&C
	sure if the sensors can pick up on it.	
	Tempo, that would be a big one for us. And maybe centre of mass, or my	S&C
	centre line for the limb it's worn on.	
	All 3 of them (ECC/AMOR/CON). When we lift, it's quite important for the	S&C
	eccentric phase, especially if we're doing a box squat or a squat, the rule is	
	3-4 seconds on the way down and that's just to help resilience and injury	
	prevention. But you do notice when the guys are younger versus more	
	experienced, they don't understand it. They rush down too quick and they	
	actually skip the whole phase like. So if we could show them good time and	
	good tempo to control the bar and control the weight, they could get a lot	
	better and it would be definitely useful.	
Wearing more	I do actually think more sensors would be cool but I think, I think that	В
sensors to enable	because I'm a bit of a nerd with stuff, so I'm like more sensors, that's cool;	
more detailed	more accurate data, bla bla bla. I think for the people you may actually be	
⁻ eedback	selling this app to, one sensor is actually nearly too much.	
	(multi-label system) Maybe, that would be a premium package or whatever.	E
	I think I'd like more sensors and feedback. Wearing sensors doesn't put me	Ε
	off.	
	(multi-label system) I would probably, this is me personally, but I would look	В
	at the cost set up, is it monthly or is it a once off? If it was pay more for the	
	sensors but then the monthly cost was the same as one sensor, then I would	
	maybe go for that.	
	(multi-label system)I suppose, because I'm dealing with high level athletes, I	S&C
	would prefer to have more sensors to get more information. For example,	
	maybe one on the upper body or different sensors there.	