Appendix A. App Preview Hot Spots for Attention and Use

Table A1. Attention and Predicted Use of Features in the High Prototypicality Fitness App (n = 165)



	Attention		Use			
	n	%	n	%	χ^2	P
Left app preview						
Header app logo icon (top left)		23%	14	9%	17.63	<.001
Header page title ("Discover")	34	21%	26	16%	n/a	.15
Header search icon	40	24%	57	35%	7.31	.007
Activity 1 "Outdoor running"	109	66%	63	38%	32.66	<.001
Activity 2 "Treadmill"	104	63%	53	32%	38.46	<.001
Activity 3 "Individual Exercising"	90	55%	36	22%	40.13	<.001
Footer menu option "Discover"		29%	52	32%	.20	.66
Footer menu option "Trainers"		30%	36	22%	3.35	.07
Footer menu option "Saved"		25%	42	26%	.00	1.00
Footer menu option "Profile"	53	32%	70	42%	5.02	.03
Footer menu option "Settings"		30%	69	42%	7.22	.01
Right app preview						
Header app logo icon (top left)		15%	11	7%	n/a	.02
Header page title "Profile"		22%	32	19%	.49	.49
Header settings icon		28%	62	38%	4.89	.03
Calendar feature		65%	118	72%	1.96	.16
Performance tracker feature		86%	157	95%	n/a	.003
Footer menu option "Discover"		26%	48	29%	.52	.47
Footer menu option "Trainers"		29%	39	24%	1.36	.24
Footer menu option "Saved"		24%	45	27%	.37	.54
Footer menu option "Profile"		30%	75	46%	12.50	<.001
Footer menu option "Settings"		32%	71	43%	7.20	.01

Note: n/a = chi square values are not applicable if fewer than 25 discordant pairs; binominal distributions are used for exact 2-tailed significance in these comparisons.

Table A2. Attention and Predicted Use of Features in the High Prototypicality Nutrition App (n = 182)



	Attention		Use			
	n	%	n	%	χ^2	P
(LEFT SIDE)						
Header app logo icon (top middle)		21%	8	4%	23.36	<.001
Header search icon		10%	54	30%	21.81	<.001
Calorie tracker feature	156	86%	160	88%	n/a	.54
Details icon	14	8%	50	28%	26.63	<.001
Calendar feature	88	48%	114	63%	11.57	.001
Footer menu option "Profile"		20%	90	50%	38.09	<.001
Footer menu option "Recipes"	58	32%	106	58%	32.49	<.001
Footer menu option "Plus"	30	17%	45	25%	4.56	.03
Footer menu option "Plans"	50	28%	102	56%	36.13	<.001
Footer menu option "Settings"	35	19%	87	48%	36.13	<.001
(RIGHT SIDE)						
Header app logo icon (top middle)	40	22%	12	7%	20.25	<.001
Header search icon		12%	38	21%	5.95	.02
Holistic icon	4	2%	9	5%	n/a	.13
Ketogenic Easy feature		60%	71	39%	20.74	<.001
Footer menu option "Profile"		14%	58	32%	19.32	<.001
Footer menu option "Recipes"		25%	80	44%	18.95	<.001
Footer menu option "Plus"		13%	28	15%	.46	.50
Footer menu option "Plans"		20%	72	40%	18.95	<.001
Footer menu option "Settings"		14%	57	31%	16.36	<.001
Classic feature		39%	46	25%	11.50	.001
Simple rules icon		2%	9	5%	n/a	.07
Ketogenic Medium feature		56%	68	37%	16.25	<.001
5:2 feature		37%	52	29%	4.00	.046
Take the Test feature	108	59%	131	72%	9.88	.002

Note: n/a = chi square values are not applicable if fewer than 25 discordant pairs; binominal distributions are used for exact 2-tailed significance in these comparisons.

Appendix B. Survey items

Concept	Item	Response options
Feature	Select all the elements you would expect to find in a	1 = Menu
expectation	health app. Check all that apply.	2 = Search option
1		3 = Settings option
		4 = Logo
		5 = Log/Input data option
		6 = Share with friends option
		7 = Summary statistics
		8 = Summary graph/chart
		9 = Calendar
		10 = Page title
		11 = Login
		12 = User profile
Feature	Where do you think the [feature] should appear in	Hot spots
Placement	the health app?	
	Select all the areas on the app screen below where	
	you would expect the [feature] to appear. Selected	
	areas will be shown in green.	
App choice	Below are two health apps in development. Please	1 = Low prototypicality app
	review the apps and select the app you would be	2 = High prototypicality app
	mostly likely to download by checking the circle	
	to the bottom left corner of the preview. We will	
	ask you questions about both, but first we want to	
	know which one you prefer.	
Attention	For your selected app, what elements in the app	Hot spots
	caught your attention? Select all elements that	
	grabbed your attention within the app preview	
	below.	
Predicted use	For your selected app, what elements in the app do	Hot spots
	you think you would use ? Select all elements that	
	you believe you would use within the app preview	
	below.	
Aesthetics:	The layout appears too dense. (reverse coded)	1 = Strongly disagree
Simplicity	The layout is easy to grasp.	2 = Somewhat disagree
	Everything goes together on this app.	3 = Neither agree nor disagree
	The app appears patchy. (reverse coded)	4 = Somewhat agree
	The layout appears well structured.	5 = Strongly agree
Aesthetics:	The layout is pleasantly varied.	1 = Strongly disagree
Diversity	The layout is inventive.	2 = Somewhat disagree
	The design appears uninspired. (reverse coded)	3 = Neither agree nor disagree
	The layout appears dynamic.	4 = Somewhat agree
	The design is uninteresting. (reverse coded)	5 = Strongly agree
Aesthetics:	The color composition is attractive.	1 = Strongly disagree
Colorfulness	The colors do not match. (reverse coded)	2 = Somewhat disagree
	The choice of colors is botched. (reverse coded)	3 = Neither agree nor disagree
	The colors are appealing.	4 = Somewhat agree
A	T1. 1	5 = Strongly agree
Aesthetics:	The layout appears professionally designed.	1 = Strongly disagree
Craftsmanship	The layout is not up-to-date. (reverse)	2 = Somewhat disagree
	The design of the applicable a concept (reverse)	3 = Neither agree nor disagree
	The design of the app lacks a concept. (reverse)	4 = Somewhat agree

		5 = Strongly agree
Perceived ease of use	The app would be clear and understandable. Getting the app to function would not require much mental effort. I would find the app easy to use.	1 = Strongly disagree 2 = Somewhat disagree 3 = Neither agree nor disagree 4 = Somewhat agree 5 = Strongly agree
Perceived usefulness	Using the app would improve my health. Using the app would make me more likely to meet my health goals. I would find the app useful for achieving my health goals.	1 = Strongly disagree 2 = Somewhat disagree 3 = Neither agree nor disagree 4 = Somewhat agree 5 = Strongly agree
Intention to use	[Randomized in construct matrix.] If the app were available, I would intend to use it in the next month. If the app were available, I predict I would use it in the next month.	1 = Strongly disagree 2 = Somewhat disagree 3 = Neither agree nor disagree 4 = Somewhat agree 5 = Strongly agree
Perceived affordances	This app would allow me to Please check all that apply.	1 = Set health goals 2 = Track my progress 3 = Create new health habits 4 = Learn health tips 5 = Interact with others 6 = Earn rewards 7 = Make meeting my health goals easier 8 = Improve my health 9 = Increase my control over my health 10 = Have fun with technology 11 = Give me more information about my health 12 = Share my health data with friends 13 = Share my health data with a healthcare provider
Age	How old are you?	100111100110 120 120
Gender	How do you describe your gender identity?	1=Male 2=Female 3=Other
Hispanic	Are you of Hispanic, Latino, or Spanish origin?	1=Yes 0=No
Race	Which one of these groups would you say best represents your race?	1 = White 2 = Black or African American 3 = American Indian or Alaska Native 4 = Asian, or 5 = Pacific Islander 6 = Multicultural 7=Other
Education	What is the highest degree or level of school you have completed?	1 = Some high school 2 = High school diploma or GED 3 = Some college, no degree 4 = Associate degree 5 = Bachelor's degree 6 = Masters degree (e.g., MA, MS)

		7 = Professional or Doctorate degree (e.g., JD, MD, PhD)
Health status	In general, would you say your health is	1=Very Poor 2=Poor 3=Fair 4=Good 5=Very Good
Mental health status	In general, would you say your mental health is	1=Very Poor 2=Poor 3=Fair 4=Good 5=Very Good
Health app use	Do you use a health app?	1=Yes 2=No