

Survey Questionnaire for End-users

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This survey is designed to get feedback from End-Users and Stakeholders on how they go about handling human-centric issues in eHealth apps' to achieve more effective usage and identify key future needs. The questionnaire is divided in two sections. The first section collects some demographic information of the participants. No identifying information is collected in this questionnaire. Then, the second section collects their views on human-centric issues in this domain.

Section 1: Demographic Information

		og. upo				
1.	Country	y of residence:				
2.	Age:					
3.	Gender	:				
4.	Highes	t qualification:				
5.	Area of	Equalification:				
6.	Experie	ence (in years) in mobile app usages:				
7.	Current	t affiliations (tick all that apply):				
	a.	Student				
	b.	Medical practitioner (doctor/nurse/physiotherapist/psychologist/pharmacist)				
	c.	Researchers (academic audience/ Software Engineering researcher/ medical domain researchers)				
	d.	Patients with medical/health issues				
	e.	Other service holders (banker/retail agent/lawyer)				
	f.	Businessperson				
	g.	Government officials				
	h.	Other:				
		Please write here				
8.	Do you	ever use an eHealth app?				
		Yes (go to next question i.e., question 9)				
		No (go to next section i.e., question 10)				
9.	What ty	ype(s) of eHealth app you used (tick all that apply):				
	a.	Telehealth and telemedicine app				
	b.	Health and Fitness tracking app				
	c.	Mental health app				
	d.	Mobile games to improve health issues				

e. eHealth app for solving a specific health issue

Electronic Health Records (EHR) Electronic Medical Records (EMR)

App for consumer health IT data

App for health IT systems



- j. Virtual healthcare app
- k. Mobile health decision making app
- 1. App related to big data systems used in digital health
- m. Other:

Please write here		

□ Yes				
□ No				
Which human-centric issues do you need,	or think ot	thers need, to b	e supported	l in eHea
cick all that apply)?			_	
Issue	Always	Sometimes	Rarely	Never
Elderly users e.g. > 60 years of age				
Very young users e.g. < 16 years of age				
Users with accessibility issues				
Users with physical challenges				
Users with mental health issues				
Users with cognitive challenges				
Users whose language proficiency may				
be low				
Users uncomfortable with technology				
Low socio-economic status users				
Different gender, gender identity of users				
Users with diverse cultural backgrounds				
Other vulnerable users				
Others				



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University 12. Which of the following human-centric issues do you view/think/believe as most critical for effective eHealth app usage, and consequently its development and deployment (tick all that apply)?

Issue	N/ A	Critically Important	Important	Not much importance
App reliability: Trustworthiness, correctness, data source, theory and practice.				
App accessibilities: Text contrast, alternate text vs images, links, navigation, form, labels, table, time-outs, use of sitemap etc.				
App usability: Taps, landscape mode, platforms, OS versions, resolution, auto-filled customer data, unresponsiveness (for gestures), content, navigation etc.				
App versatility: Variety of health information or communication services at different levels in the user community domain.				
User versatility: End-users age, physical challenges (for example adaptive interface for the visually impaired), Mental health issues, Cognitive challenges, Language and technology proficiency, Gender variability, Socioeconomic status and Cultural backgrounds.				
Other:				

•	• Others – please list and key reasons for this if any:						
	Please write here						



University 13. Which human-centric issues do you find/think/believe is missing in this domain and need to be better addressed in future (Numeric value 1-easy to 5-very hard):

Issue	N/ A	Properly Included no change required	Included but need enhancement	Missing and must be included in future development
App reliability: Trustworthiness, correctness, data source, theory and practice.				
App accessibilities: Text contrast, alternate text vs images, links, navigation, form, labels, table, time-outs, use of sitemap etc.				
App usability: Taps, landscape mode, platforms, OS versions, resolution, auto-filled customer data, unresponsiveness (for gestures), content, navigation etc.				
App versatility: Variety of health information or communication services at different levels in the user community domain.				
User versatility: End-users age, physical challenges (for example adaptive interface for the visually impaired), Mental health issues, Cognitive challenges, Language and technology proficiency, Gender variability, Socioeconomic status and Cultural backgrounds. Other:				

ouchgrounds.							
Other:							
Others – please list and key reasons for this if any:							
Please write here							



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niversity ¹⁴ .	Do use additional hardware/IoT device/plugins (such as smart watch, ingestible sensors, lenses, insulin pens, APIs for visualization, Bluetooth-enabled system etc.) to address human-centric issues (such as accessibility, usability) in your mobile app for more effective usages?					
	☐ Yes (please write in the following text box)☐ No (go to question 15)					
	If you answer yes in question 14, please write the name of the hardware/IoT device/plugins that you use.					
15.	Do you have any ideas what would help us (both developers and users) to ac challenging/missing human-centric issues in eHealth app for its more effective usages?	ldress				
	Please write here					
16.	Any other comments for us about these issues, this survey?					
	Please write here					
17.	Might you be willing to be interviewed about some of your experiences in more detail by a moof our team? This will be removed from your survey responses.	ember				
	☐ Yes (please provide a contact name and email address in the following box)☐ No					
	Please write Name and Email address in this box if you answered yes for Question 17. This information will be removed from your survey responses.					
18.	Would you like to receive a report on our findings? This will be removed from your s responses.	urvey				
	☐ Yes (please provide a contact name and email address in the following box)☐ No					
	Please write Name and Email address in this box if you answered yes for Question 18. This information will be removed from your survey responses.					