TECH WITH ME

more accessible tech support system for elderly

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Abstract

With an ageing society and the rapid evolution of technology, older people's increasing [Background] demand on digital skills learning stands in contrast to the declining learning and

cognitive abilities that often come with age.

The development of accessible IT learning tools is significant for older individuals [Problem]

seeking IT training support, ensuring they receive timely and comprehensive

assistance.

This research aims to overcome challenges encountered by older individuals during [Purpose]

their IT learning process, while also introducing a solution encompassing both an

online app and offline service design.

The insights and the prototype are founded upon the research methodology involving [Methodology]

literature reviews, field studies, interviews, usability tests, etc.

Introduction & Background

The growth of the aging population and corresponding market expansion

The mounting need to enhance IT skills among older individuals, juxtaposed with challenges they encounter

The shortcomings in accessibility and engagement prevalent within existing solutions

Tech Card

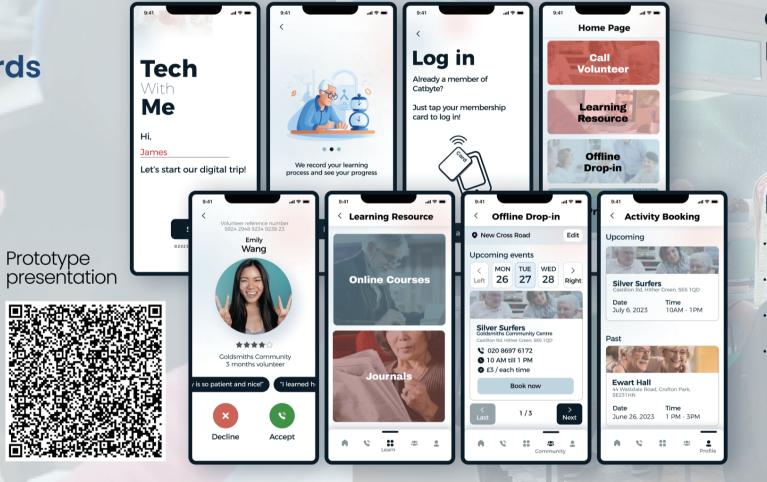


The project offers an integrated solution comprising an easy-to-use mobile app and specialized subsidiary cards with NFC technology.



Tech with





Onboarding & Log-in pages

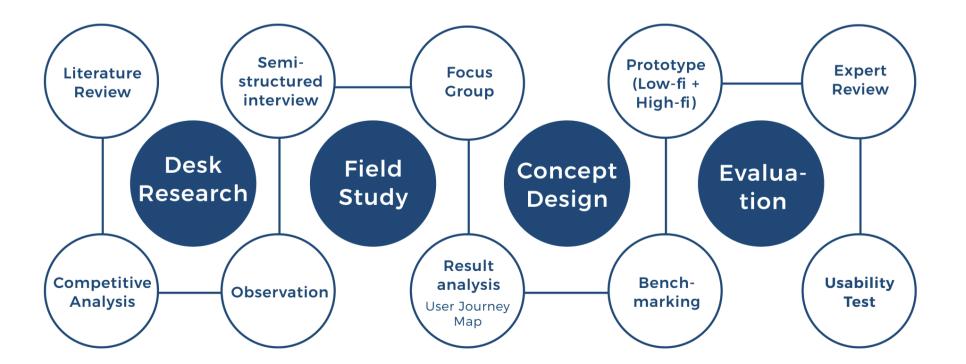
Main features Call A Volunteer Learning Resources Offline Drop-in Profile

Front cover 1 Tap at the b Double-check your email ar click to send

Back cover

Guide book

Methodology



During the primary research, the study involved the participation from





Test & Evaluation

[Usability Test]

Application Design

Task 1: Go through the "Call A Volunteer" Task 2: Go through the "Learning resources" Task 3: Go through the "Community"

[Interview & Questionnaire]

Usability measurement index:

- (a) ease of use
- (b) satisfaction

Demographic information:

- (a) age
- (b) device usage frequency

Result

Participant cohort demonstrated remarkable enthusiasm for engaging with this design, the "Calling a Volunteer" and "Community" features gained equal preference.

The easiness of	The easiness of	The easiness of	Satisfaction
"Volunteer"	"Learning Resource"	"Community"	
3.67 / 5	3.67 / 5	4.33 / 5	4.67 / 5

Conclusion & Future work

The proposed prototype is satisfying and accessible for most older individuals, effectively addressing issues like limited drop-in availability, inadequate access to senior-oriented digital resources, and visual accessibility gaps in existing solutions.

In the future, to enhance the validation of the service design aspect (including the Tech Card), collaborating with certain communities for pilot implementations would provide a more comprehensive assessment of the design's feasibility.