

A woman with long brown hair, wearing a red dress, is smiling and looking down at her smartphone. The background is a blurred outdoor setting with other people.

**Patient-Centric
Mobile App**
solution
for Cancer
Patients

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Why patient centric app?

Objective

to design a **mobile app** for cancer patients to manage their stressful daily routine

investigate technology for **secure** and **patient owned** data

Preliminary survey with 25 respondents

Survey selection was restricted to adults who

were undergoing cancer treatment

had undergone cancer treatment

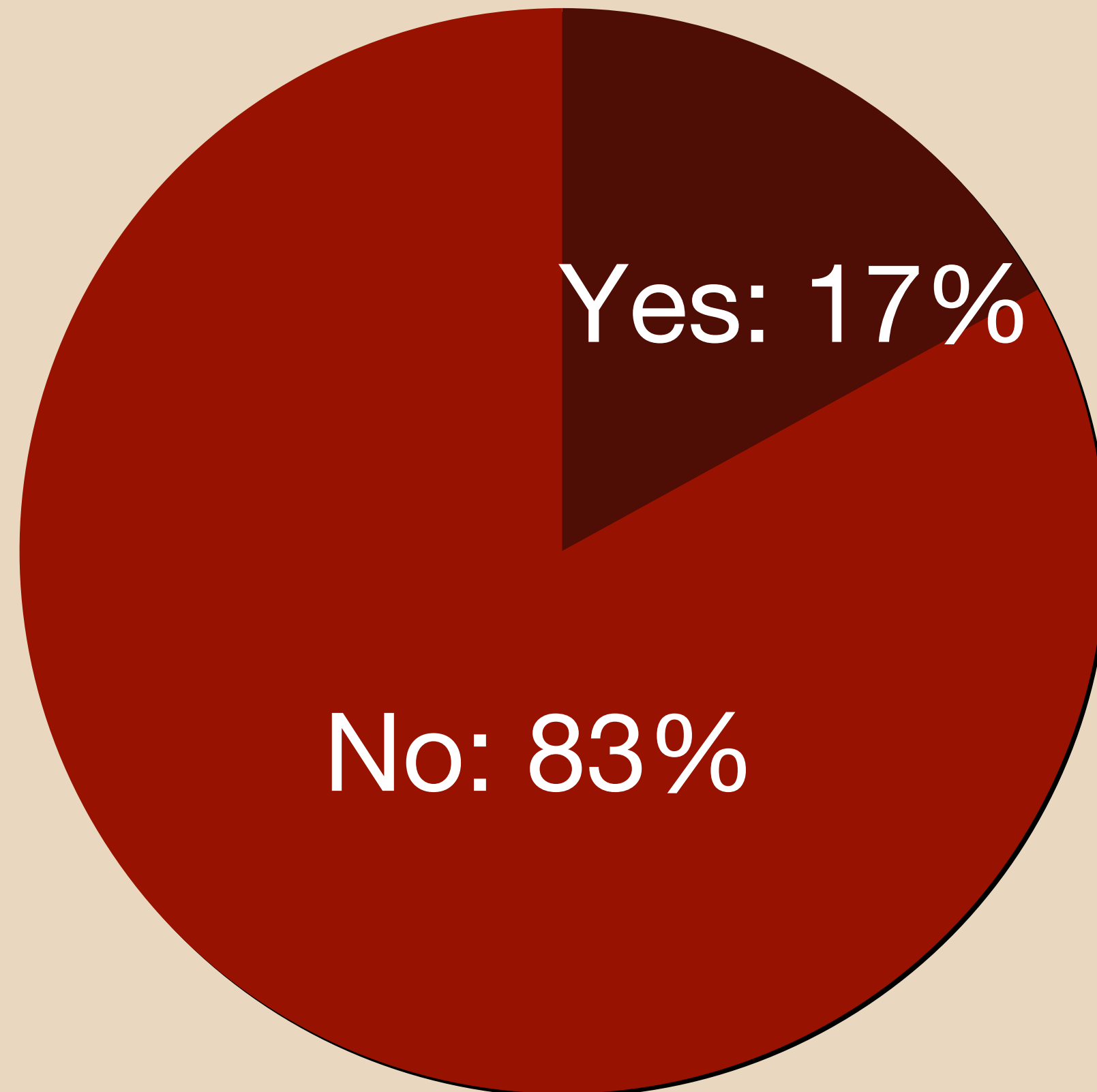
were caring for someone undergoing treatment

had cared for someone undergoing treatment

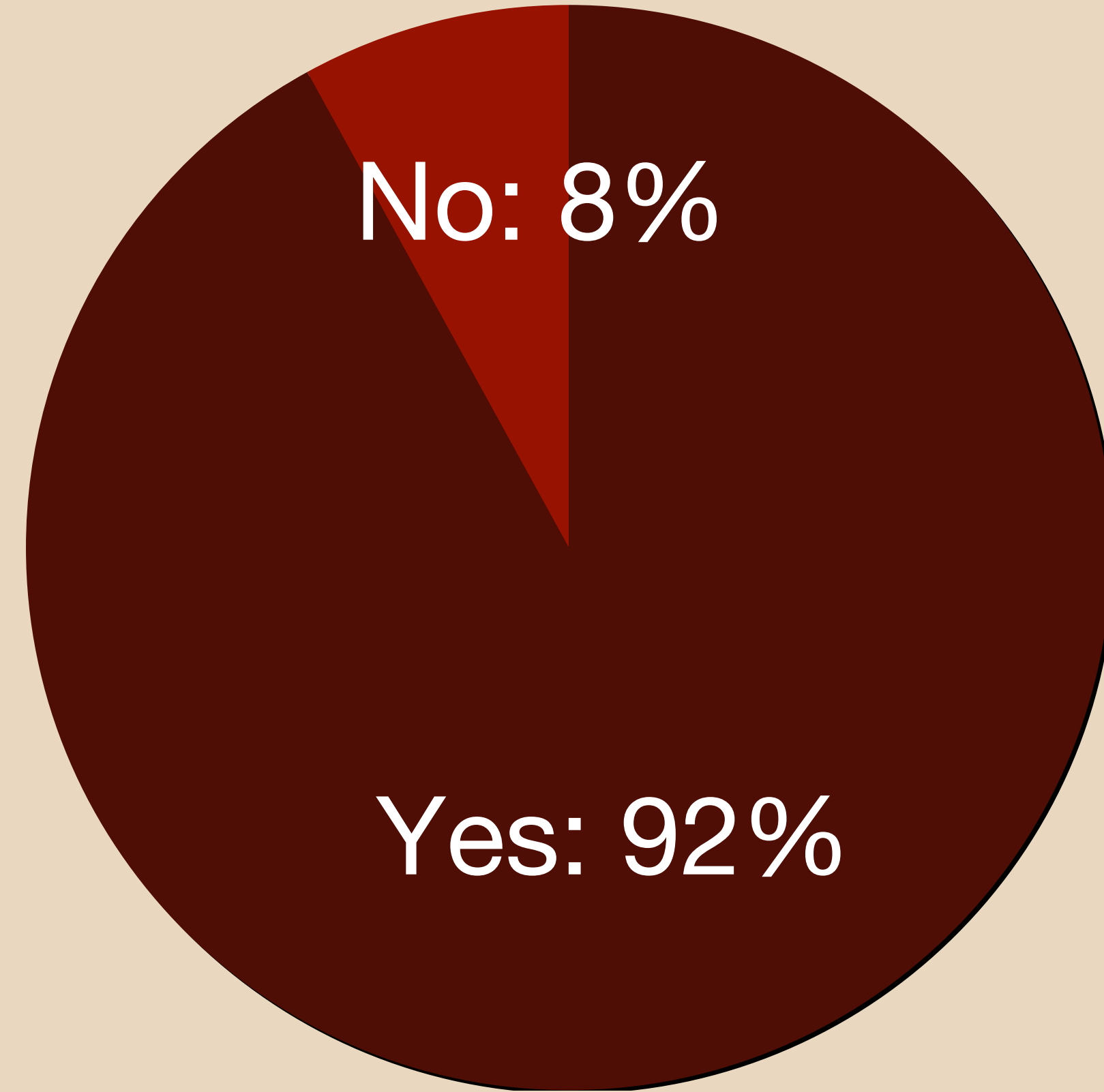
Interview with
a patient
a caregiver and
a psychologist

Results

Have you ever used a smartphone app to support your cancer journey



Would you feel comfortable using an app to manage your medical appointments and treatment schedules and contact details?



Thematic Analysis

Themes and sub-themes	Description
Non-functional requirements	Requirements that can be used to judge the operations of the app rather than specific behaviour.
Functional requirements (Reminders, record keeping, wellbeing and add-on function)	Requirements that define the function or behaviour of the app. These requirements are divided into four subsets based on the nature of the function (Reminders, record keeping, wellbeing and add-on functions).

34 major functionalities are identified

Implemented functionalities

Codes (functionalities)	Theme and sub-theme
Everything in one place and easily accessible	Non-functional requirement
Reminder for medication and appointments	Functional requirements - Reminders
Appointments, medicines, mood tracking, liquid intake	Functional requirements - Record keeping
Lists, notes, links	Functional requirements - Add-on function

GenieCanHelp App

<http://www.geniecanhelpapp.com/>

Designed to support and empower patients along their cancer journey, with emphasis on helping them stay organized



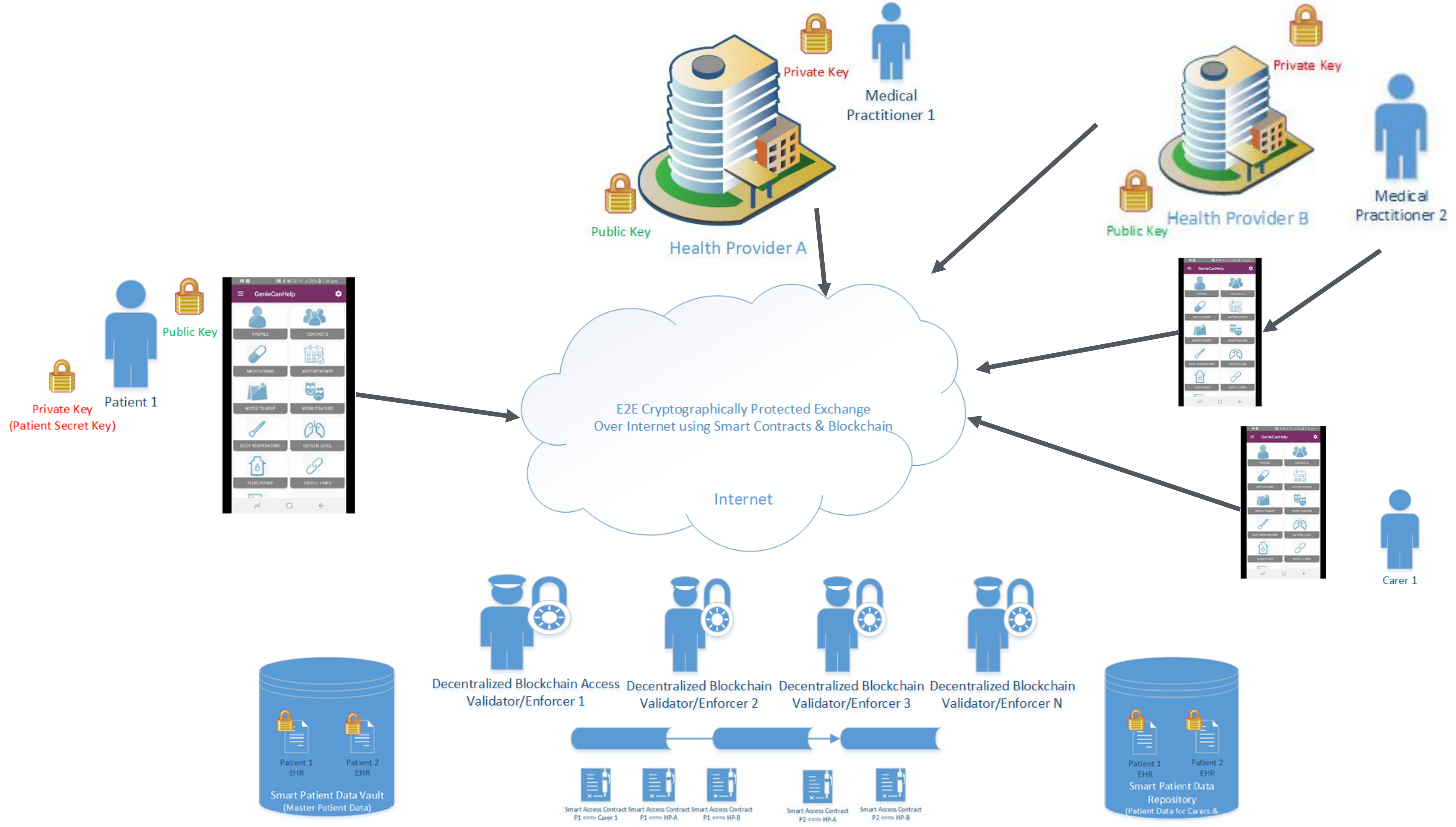
Available for free on “Google Play Store”
and “Apple App Store”,
ready for user evaluation.

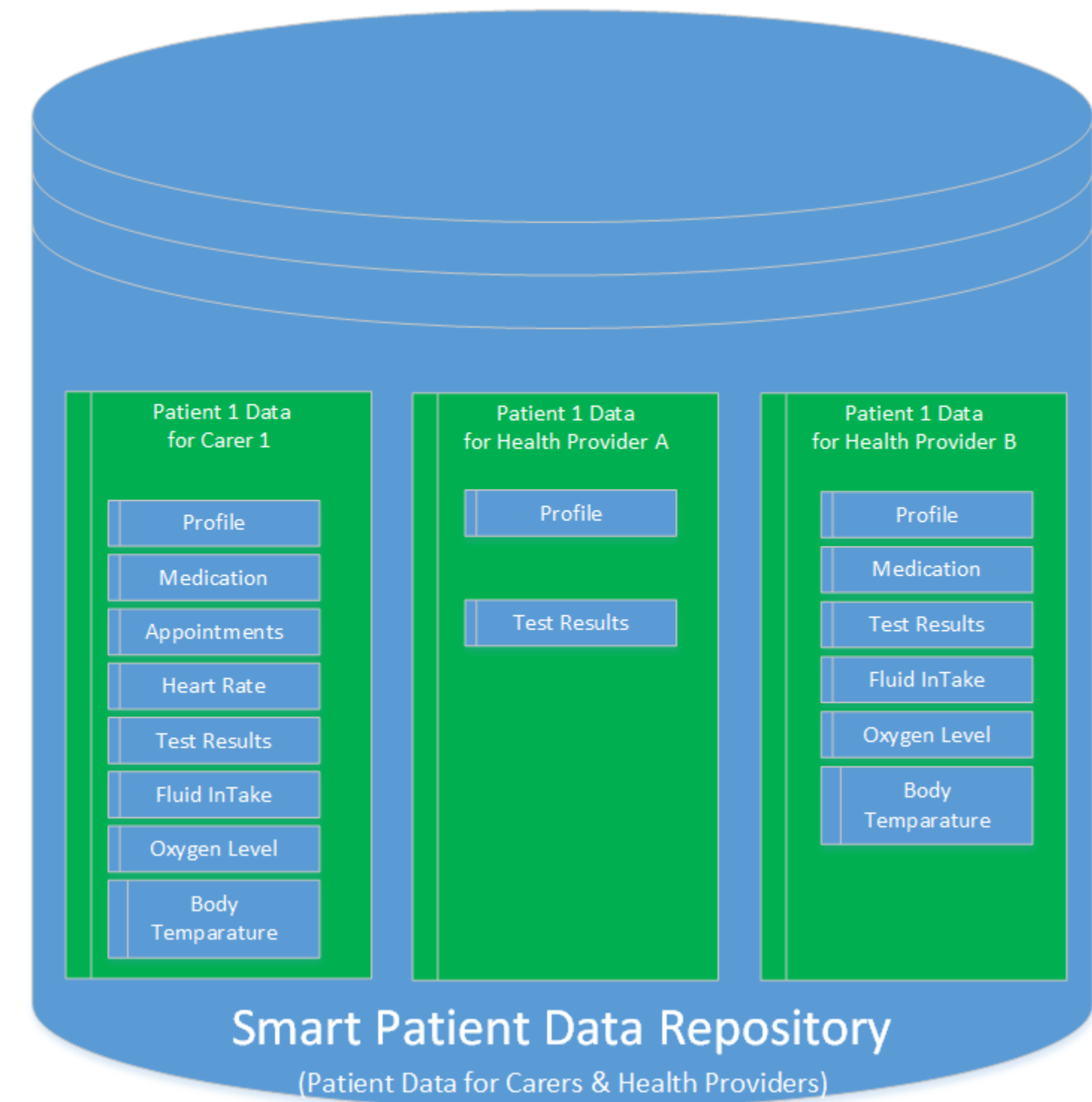
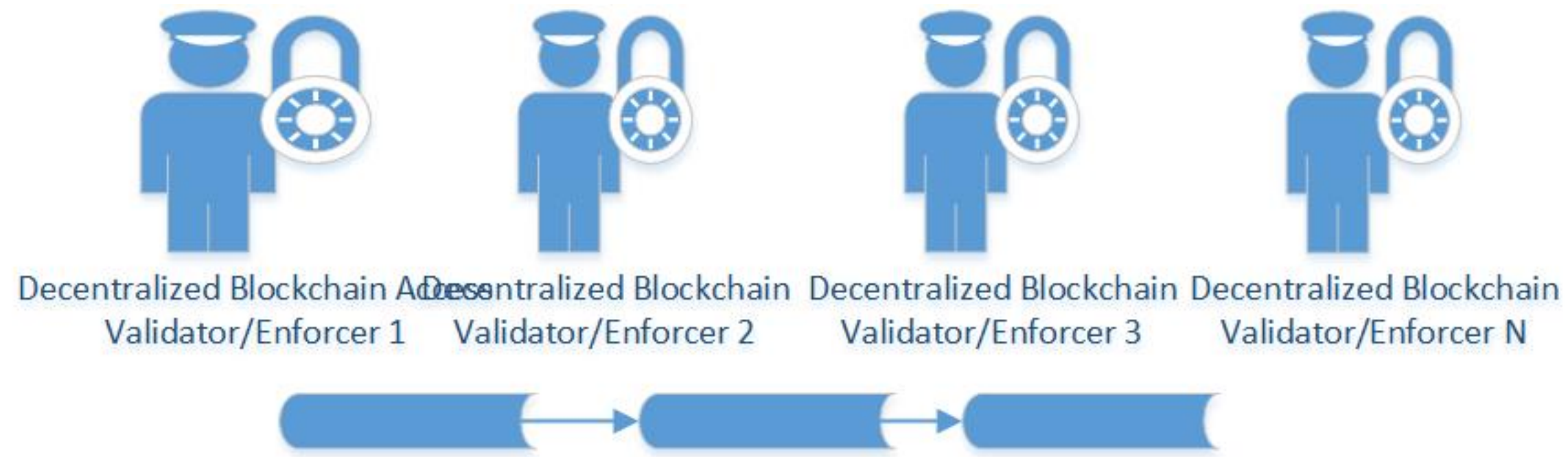
We require **volunteers** to use app for
2-3 months for **evaluation**.
Their **feedback** will help us **improve**.

Source code for **GenieCanHelp** app
is open source

<https://github.com/CyberGenieSolutions>

Secure and patient owned data
using blockchain technology





Future Work



Add more **features**

Sleep tracker

Journal writing

Audio recordings

and **many more...**

Improve based on user evaluation

Implement patient **owned**
and **secure** data
using **blockchain**

THANK YOU!
