

Senior Project Defense

Live Better

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Statement of Purpose

Live Better

- Live Better is a personal medical manager application. It is an IOS application which provides a secure, user-friendly, and fully customizable medical manager to anyone looking to improve their health and/or manage a chronic health condition.
- This app gives users the ability to track symptoms, health measurements, and medications.

Problem Statement

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- Current symptom tracking applications lack customizability, organization, and/or features such as note taking, appointment recordings, medication log, and lifestyle factors.
- In addition, some of these applications can be complicated and difficult for users to navigate.
- These shortfalls significantly reduce the number of users that can effectively use the application and therefore, miss out on the opportunity to take better control of their health.

My Why

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- I live with a very rare, chronic neuro-immune disease known as Autoimmune Autonomic Ganglionopathy
- This means lots of doctors appointments, medications, infusions, surgeries, and hospital admissions
- I often find myself keeping medical notes and appointment reminders in my phone, computer, notebooks, and random sticky notes
- I am always looking for new ways to store and organize my medical info

Research & Background

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- Using Xcode (IDE)
- Swift (Implementation Language)
- SwiftUI (UI Library)
- SwiftData (Local Database)
- I utilized the Apple Developer Documentation website and Playgrounds

Languages, Software, Hardware

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- **Implementation Language:** Swift
- **Database:** SwiftData
- **Libraries:** SwiftUI
- **Software:** MacOS, Xcode, Xcode Simulator, Playgrounds (for learning)
- **Hardware:** Computer running MacOS

Challenges

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- Learning Swift and implementing SwiftUI and SwiftData
- Xcode glitches
- Deleted GitHub project repository during construction.... So thankful for backups! Always keep backups!
- Apple made huge changes over the summer, preventing me (unpaid Apple Developer account user) from using certain features crucial to many of the features I originally planned on implementing in Live Better

Future Enhancements

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- Utilize CloudKit for cloud based database... also needed for HealthKit
- Utilize HealthKit for synchronization of health data
- Utilize Firebase for cloud based login credential authentication
- Utilize FaceID/TouchID
- Improve UI and overall look of application
- Additional features:
 - Appointment/medication alerts and reminders
 - Appointment information
 - Lifestyle factors log
 - Appointment voice recordings or AI generated written notes

QUESTIONS?