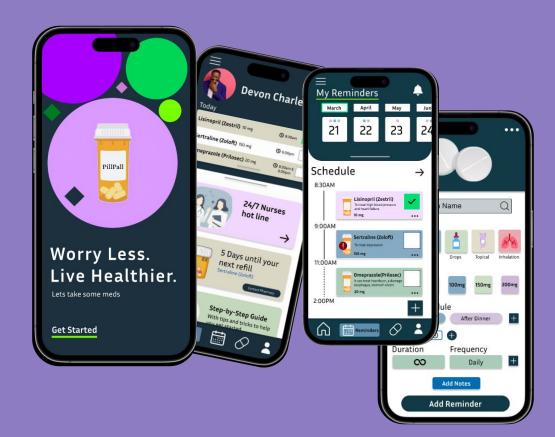
# PillPal

#### The Medicine Reminding App



Mayur Chopra

### Project overview

#### The product:

This is a medication reminder app that will help users take their medications on time and without delay. Users will be able to add other profiles for kids, pets, ect., and be confident that their medication has been not been forgotten.



**Project duration:** 

September 2023 - October 2023



#### Project overview

#### The problem:

Everyday users around the world are being prescribed medications. Weather it's new or they have been taking it for awhile, it can be difficult to remember to take medication on time everyday. Specially if it is a new prescription. Now add several medications and it can be difficult to remember what you've taken and when.

#### The goal:

I wanted to help users feel confident that they are taking the right medication at the right time without any worries. I want to take the worry of when to refill their prescriptions away by adding a countdown and making it easy to contact their pharmacy. If users have a child, a pet, or even an elder who needs help with medication, users will be able to add different profiles to help keep track and remember their persons medication as well.

#### Project overview



#### My role:

Lead UX designer, UX researcher



#### **Responsibilities:**

User research, wireframing, prototyping, mockups, UI design



### Understanding the user

- User research
- Personas
- Problem statements
- Competitive audit
- Ideation

#### User research: summary



I conducted user research to gain insights into the preferences and needs of users regarding a medication reminder app. Our research involved surveys, interviews, and usability testing with a diverse group of participants. Initially, we assumed that the primary concern was simply medication forgetfulness, but our research revealed a broader range of challenges, including concerns about medication interactions and side effects. We also assumed users preferred basic reminder features, but they showed a strong desire for medication databases, calendar integration, and gamification elements. Our assumptions evolved, highlighting the importance of offering a comprehensive solution that addresses a variety of user concerns and preferences to improve medication adherence effectively.

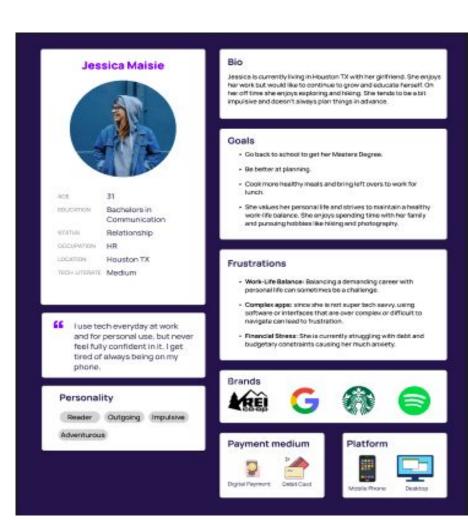


### Persona 1: Jessica Maisie

#### **Problem statement:**

Jessica Maise is a 31 year old living in Houston TX who needs a simple and easy way to remember to take her medication because she is busy and not super tech savvy. She likes to spend time outdoors and doesn't like to be on her phone too much.

Click here to see personas



### Persona 2: Devon Charles

#### **Problem statement:**

Devon, a dedicated freelance photographer, is facing the challenge of consistently managing his medication while juggling a busy schedule filled with photography assignments and projects. He is seeking a solution to help him remember to take his medication at the right times and doses, ensuring he maintains his health without compromising his professional commitments.

#### Click here to see personas



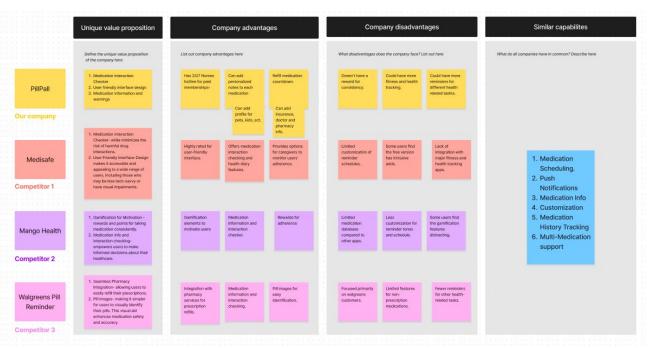
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#### Pain Points:

- 1. Forgetting Medication: Users often forget to take their medication, which can lead to missed doses and compromised health.
- 2. **Complex Medication Regimens:** Some users have complex medication schedules with multiple drugs at different times, making it challenging to manage effectively.
- 3. **Motivation and Engagement:** Maintaining user motivation and engagement over the long term can be challenging, as users may lose interest in taking their medication regularly.
- 4. Lack of Medication Information: Users may lack comprehensive information about their prescribed drugs, such as side effects or how to take them, which can impact adherence.

#### Competitive audit

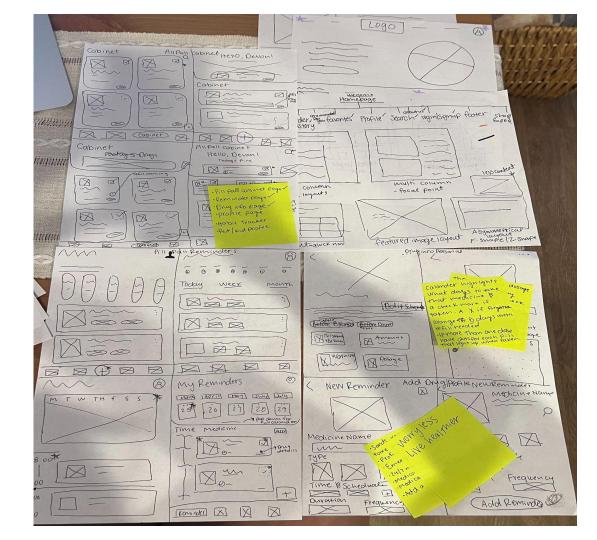
An audit on three other medication reminder apps to help provide information on gaps and opportunities to expand PillPall



#### **Competitive Audit**

### Ideation

I did a quick ideation exercise to come up with ideas on how to address users issues with remember to take medication. Mostly focused on easily adding and editing medications and simple medication information access.



## Starting the design

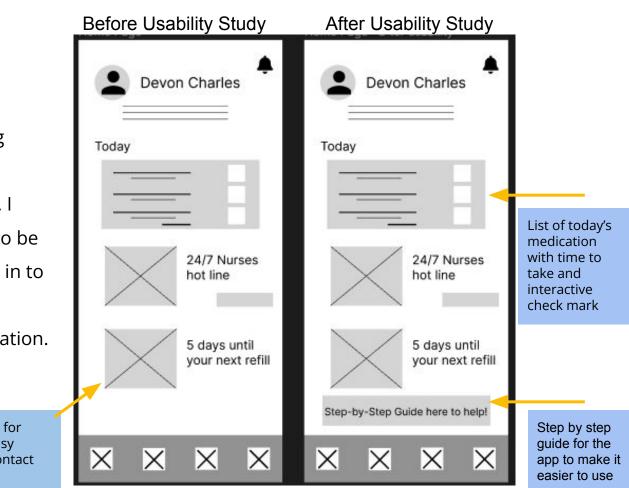
- Digital wireframes
- Low-fidelity prototype
- Usability studies



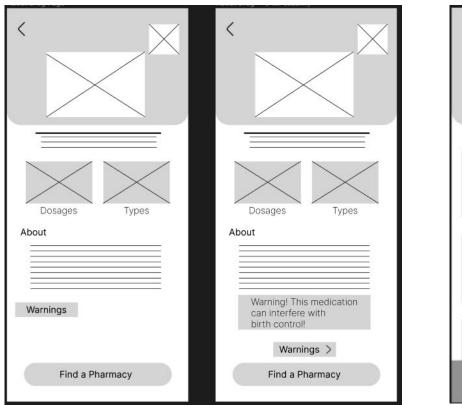
### Digital wireframes

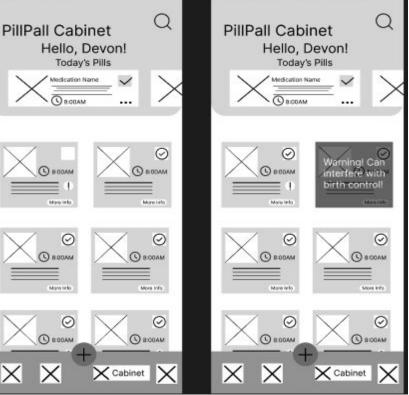
After the ideation step and drawing paper wireframes, I made digital wireframes of the main homepage. I wanted the medication of the day to be front and center, the profile signed in to easily see whose medication is on screen, and easily seen refill notification.

> Countdown for refill and easy access to contact pharmacy.



### Digital wireframes



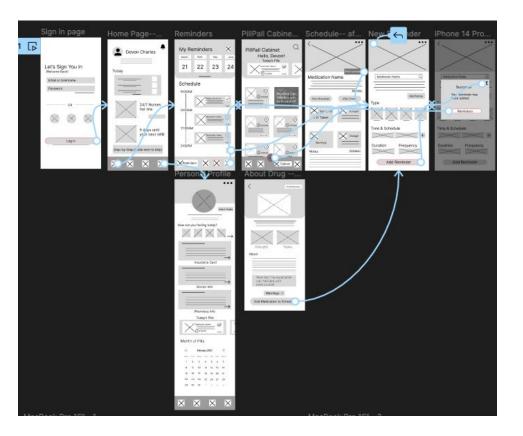


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### Low-fidelity prototype

I prepared a low-fidelity prototype to prepare for a usability study. The process is to add a medication to the users schedule.

Low-Fidelity prototype



### Usability study: parameters



**Study type:** Unmoderated usability study



Los Angeles, Remote



Participants:

7 participants



Length: 15-30 minutes

### Usability study: findings

These were the main findings from my usability study.



assist users in their medication management.

## Refining the design

- Mockups
- High-fidelity prototype
- Accessibility



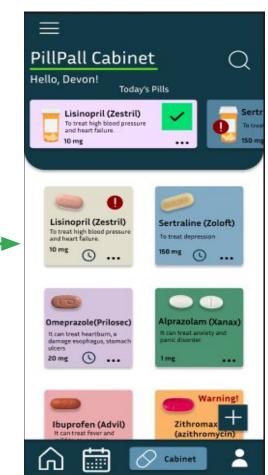
### Mockups

From my usability study, I found that users want medication imagery for easy identification. Instead of the original animated pills I had placed by each medication information, I added real images of the medication.

#### Before usability study



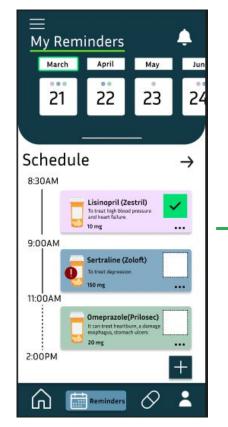
#### After usability study



### Mockups

Users want to have a caregiver option and while I had the option, I wanted to make it easier to switch profiles.

#### Before usability study



8:30AM

9:00AM

2:00PM

(U)

#### After usability study



Google

### Mockups





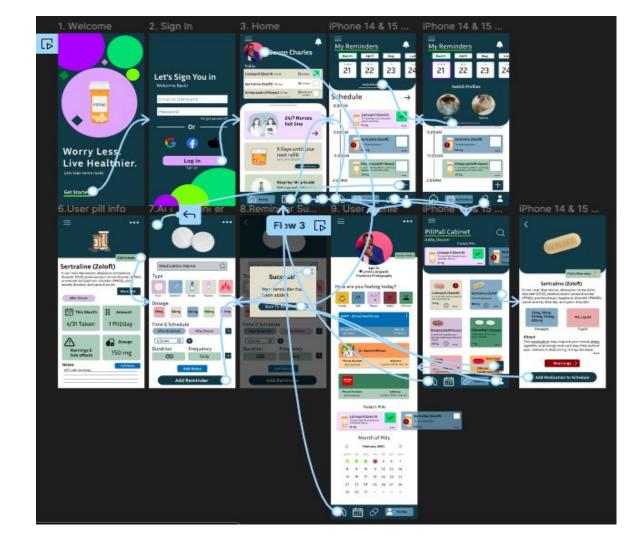




# High-fidelity prototype

After creating my mockups, I implemented my prototype. The user flow is to add a new medication to their schedule.

High Fidelity Prototype



#### Accessibility considerations

Clear medication imagery for easy identification and to reduce the chances of taking the wrong pills. When a medication can interfere with another medication a user is taking, a warning will pop up next to that medication to warn the user. They will be able to acknowledge the warning saying they are aware of the interference.

2

3

I created a smart watch interface to help users with reminders. They will be able to customize their reminders not only on the app but on their smart watch too. This will make it easier for them to be reminded to not only take their medication, but if they are a caregiver, to make sure the person they are caring for has taken their medication.

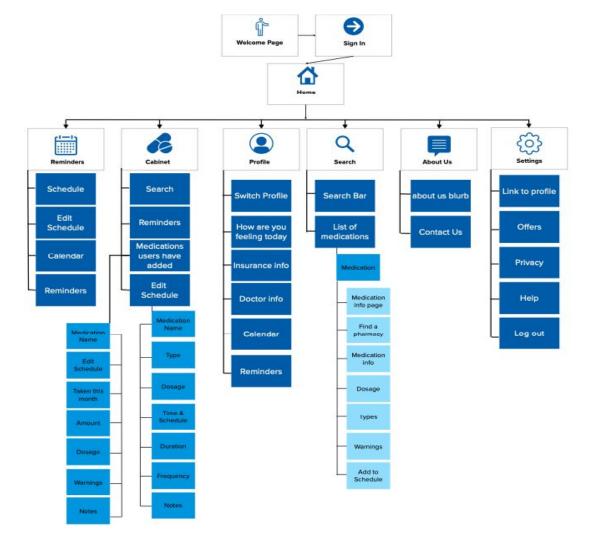
### **Responsive Design**

- Information architecture
- Responsive design



### Sitemap

With the app design finished I started working on a responsive website. I used my sitemap to help guide the organization structure to make sure the website's user experience was consistent across devices.



### Responsive designs

The design for different screen sizes include phone, desktop, tablet and smartwatch. I did a mobile-first approach and worked my way up to desktop size. Then decided to include smartwatch designs as well. I prefer mobile-first design approach, it keeps me focused on the most important features to make the user experience more enjoyable and keep it accessible.



### Responsive designs

Here is my mockup for a smartwatch design. This was a challenge in that I had to make sure to have the most important features available while being accessible. I found it important to have a smartwatch design to make it easy for users to be reminded of their medication even if they don't have their phones next to them.



### Going forward

- Takeaways
- Next steps



### Takeaways



#### Impact:

Users shared that they were able to remember to take their medication on time and stay consistent. One user said, "I was able to remember to give my dog Rocket her medication on time the first day I used PillPall".



#### What I learned:

I learned that there are a lot of different user needs when it comes to taking medication. At first I thought this project would be pretty straight forward, but after doing research I found many different needs and wants from users that I had never thought of. I learned a lot about how users prefer to be reminded and how they like more interactive and customization qualities in their schedule making

#### Next steps





Conduct research on how successful that app is globally and how different needs in different countries need to be met. Add more resources for users who don't have insurance. 3

Add a reward system for taking their medication consistently.

#### Let's connect!



Thank you for taking the time to review my work on the PillPal App. If you'd like to see more of my work please contact me! Email: mayur5chopra@gmail.com Website: www.mayurchopra.in

