

IMPACT

Design Research Presentation

4 June 2015

Design Team



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Introduction

Research Recap

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Families

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Medical Staff

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Support Staff

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Management

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Other Staff

- Doctors
- Nurse Practitioners
- Nurses
- Pharmacists
- Dietitians
- Personal Care Specialists

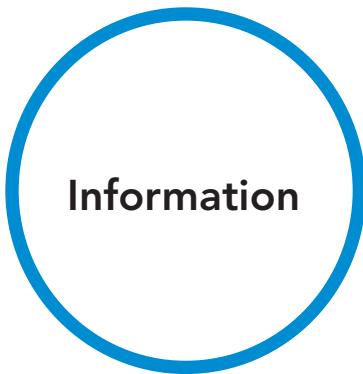
- Care Managers
- Child Life
- Social Workers
- Teachers
- School Intervention
- Chaplain

- Clinical Directors
- AVP of Patient Services
- Pharmacy Manager

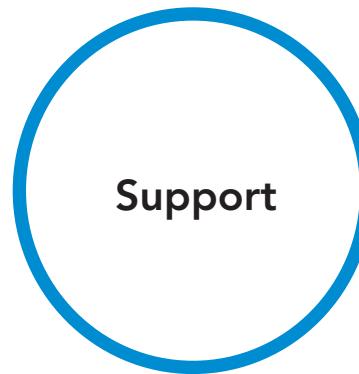
- Customer Service Rep
- Health Unit Coordinator

Total Interviews: 61

Uncertainty Factors



- Flow of information
- Materials and resources



- Staff support
- Community



- Communication with staff
- Communication with family

Co-creation Sessions



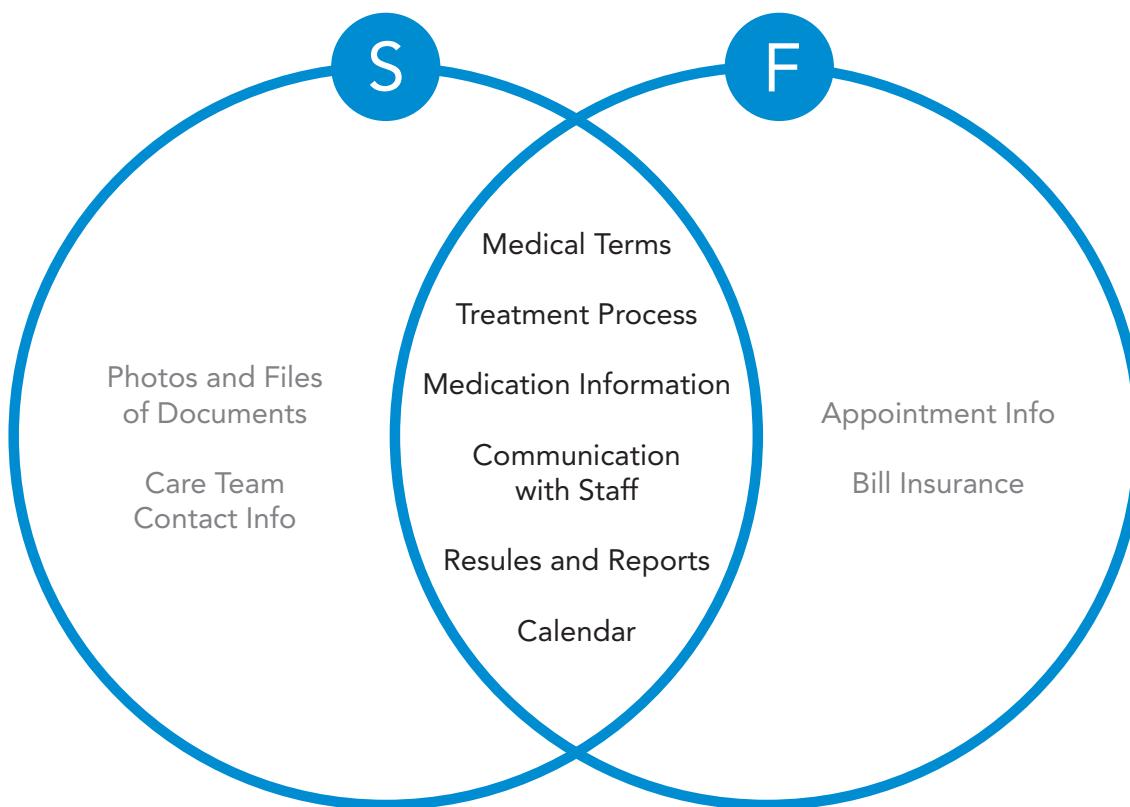
- In person
- Over the phone
- Online



- Doctors
- Nurse Practitioners
- Nurses
- Pharmacists
- Dietitians
- Personal Care Specialists

Total Sessions: 28

Comparing Priorities

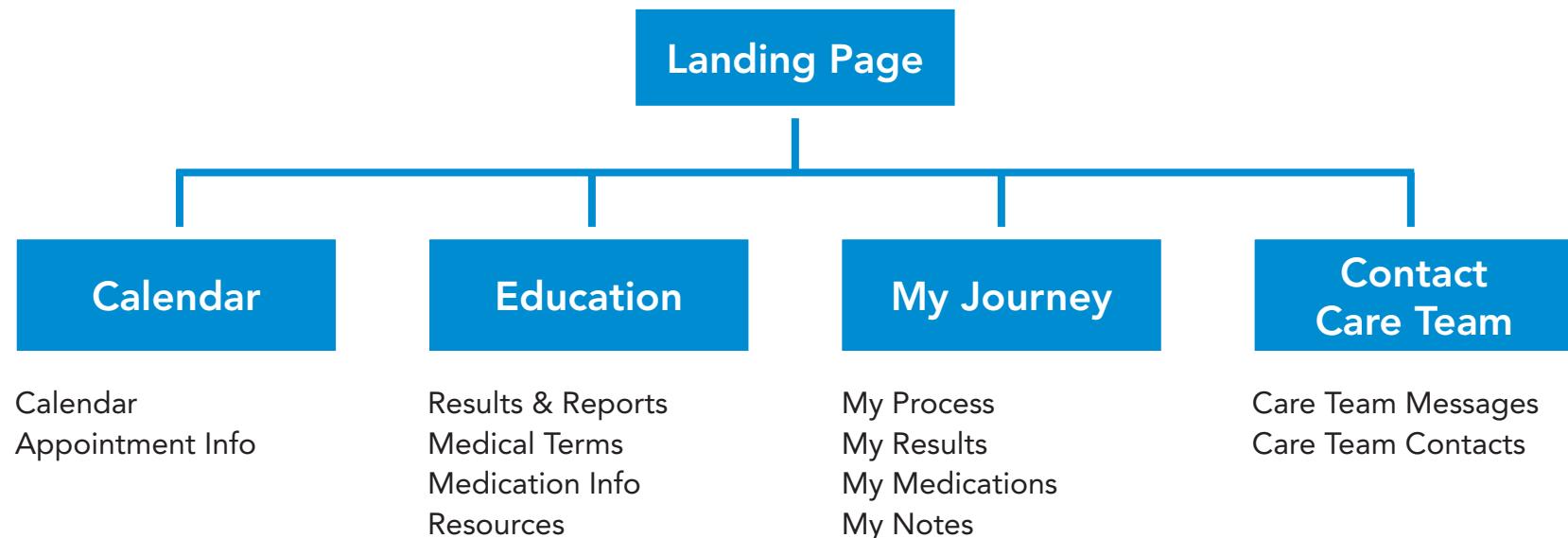


Comparing Priorities

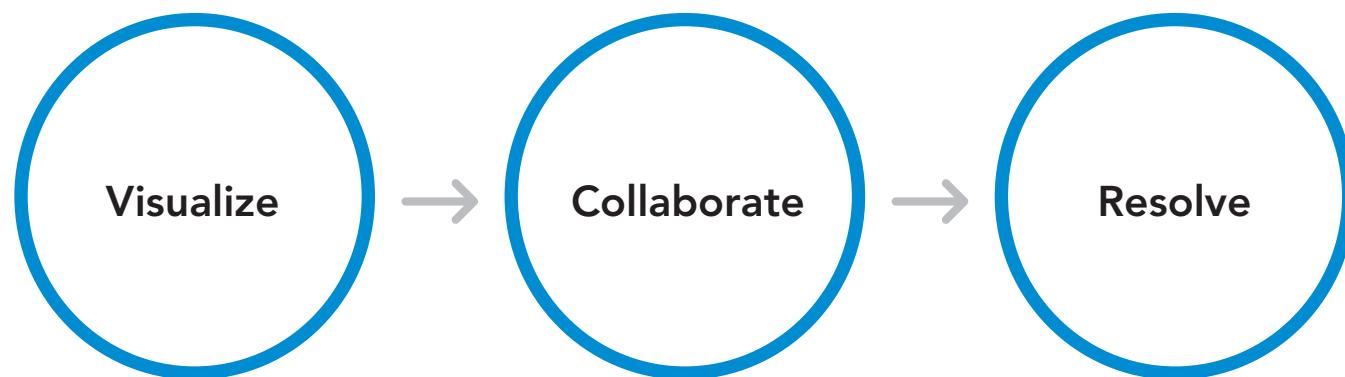


- 5 repeating families
- 3 new families

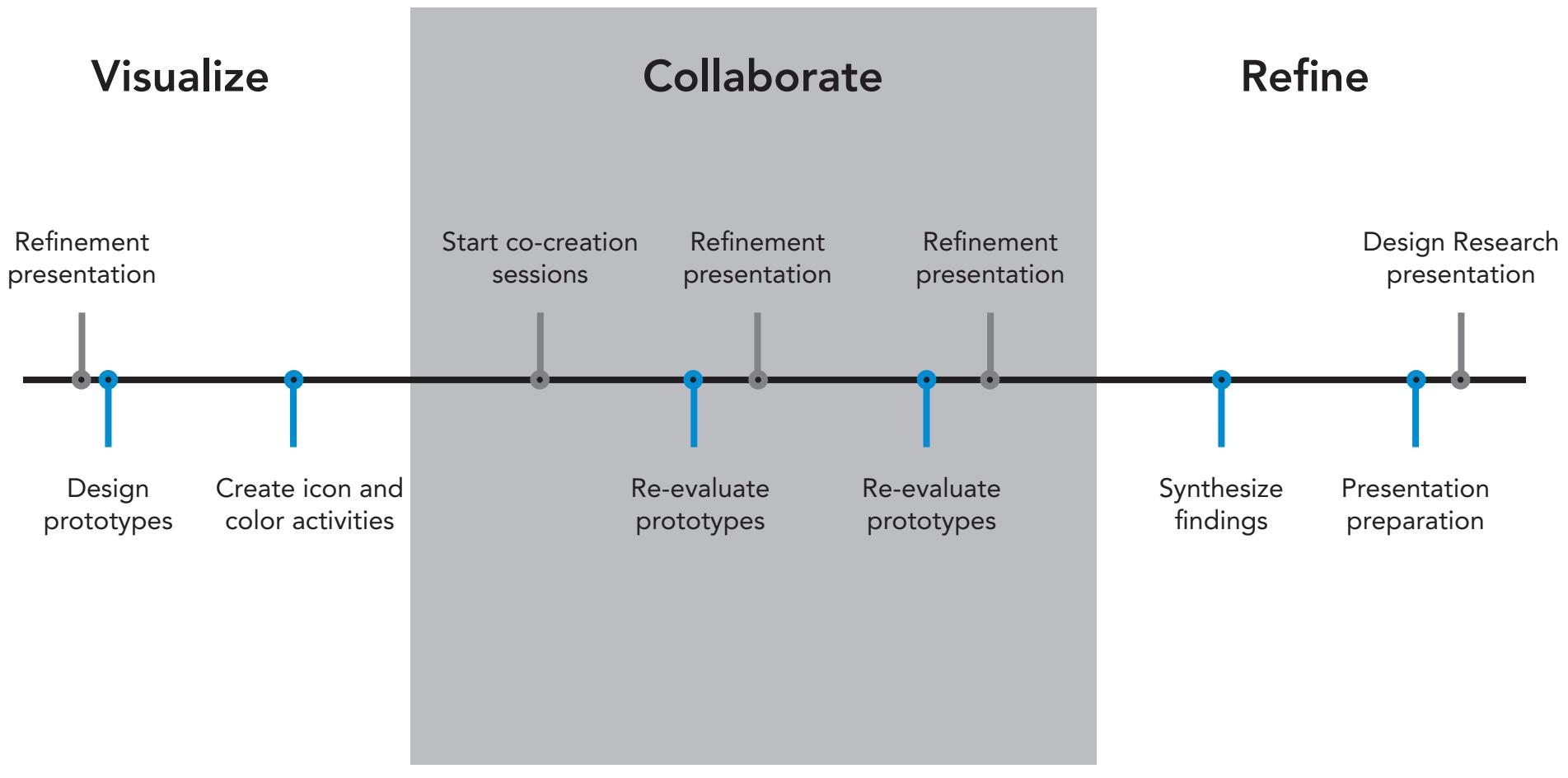
Final Architecture



Our Process



Our Process



● LWC Team+ CCHMC

● LWC Team

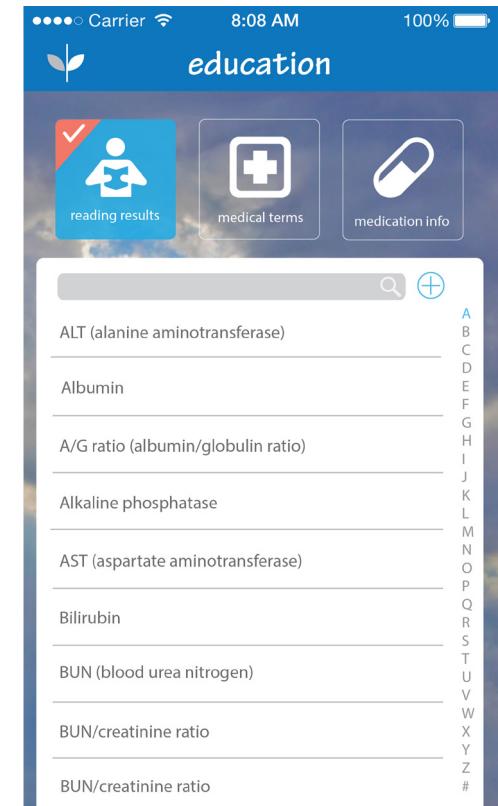
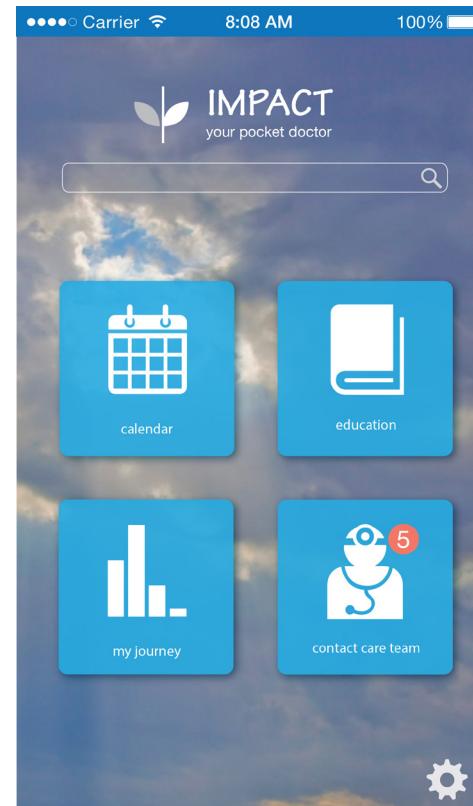
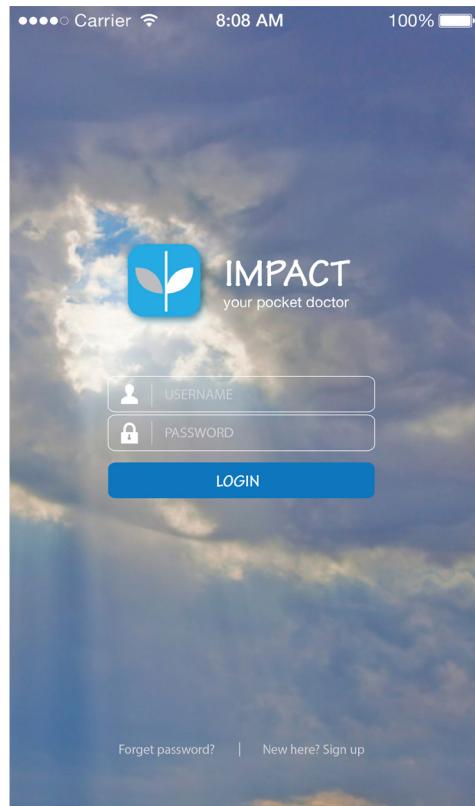
IMPACT

Research Presentation Summer 2015

Visualize

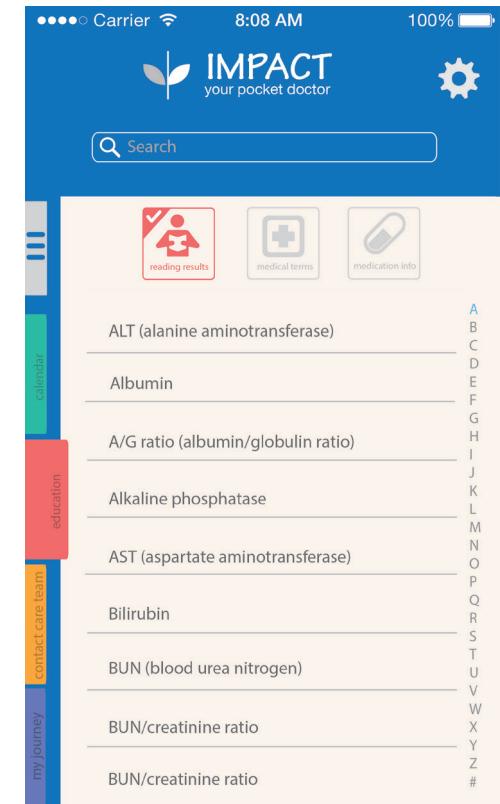
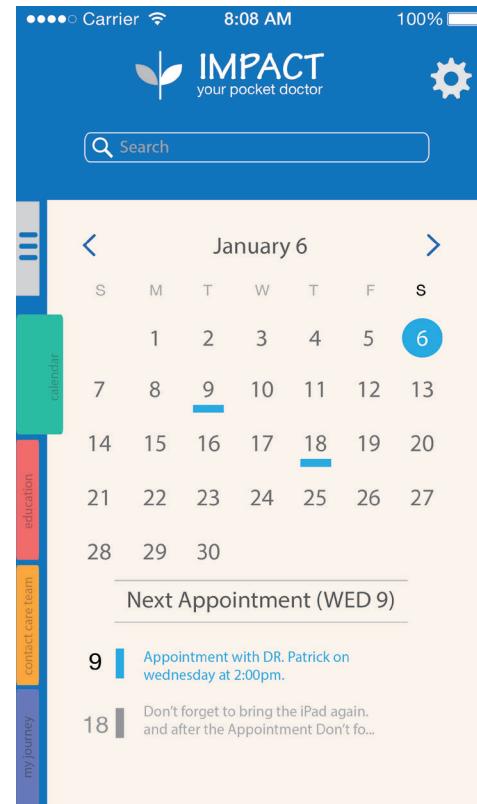
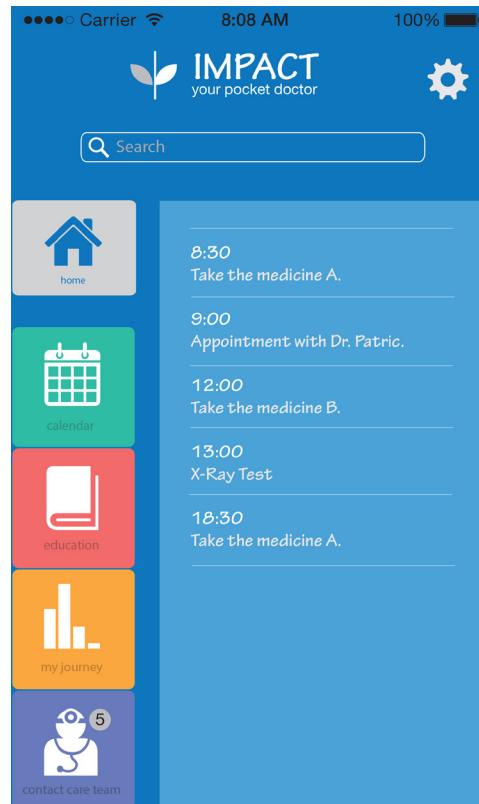
Concept 1

This concept uses a calming background with an emphasis on click-able buttons. A grid and a side pop-out navigation organizes the flow of the app. The color palette is monochromatic with the only change in color for notification.



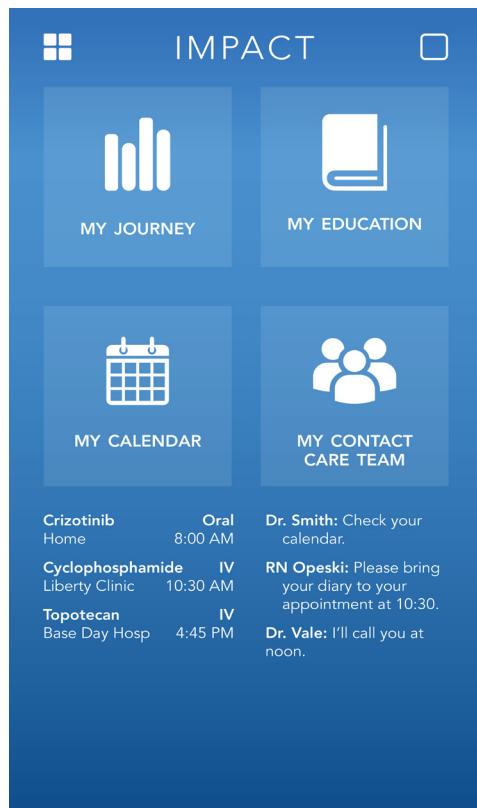
Concept 2

This is a flat design concept, using color as a primary navigation identifier and icons as secondary navigation. The landing page provides daily schedule, medications and appointments, and any unread messages.



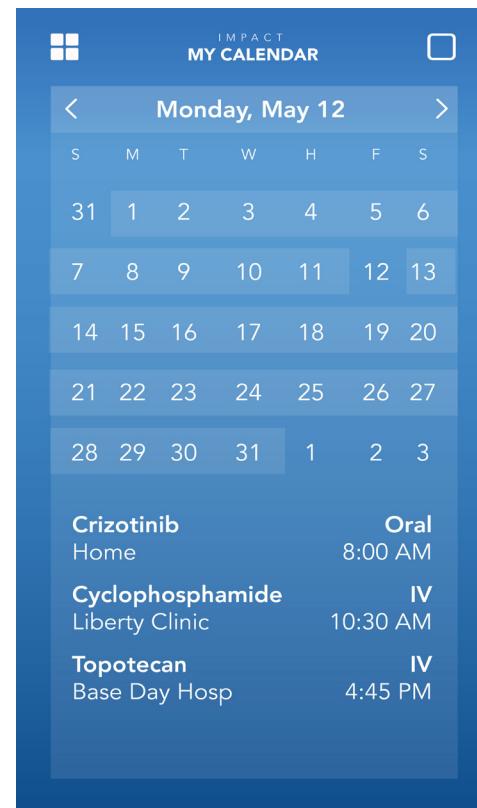
Concept 3

This concept utilizes a monochromatic color palette and a grid-ed icon structure for main navigation. The landing page also includes events and unread messages in a subtle design.



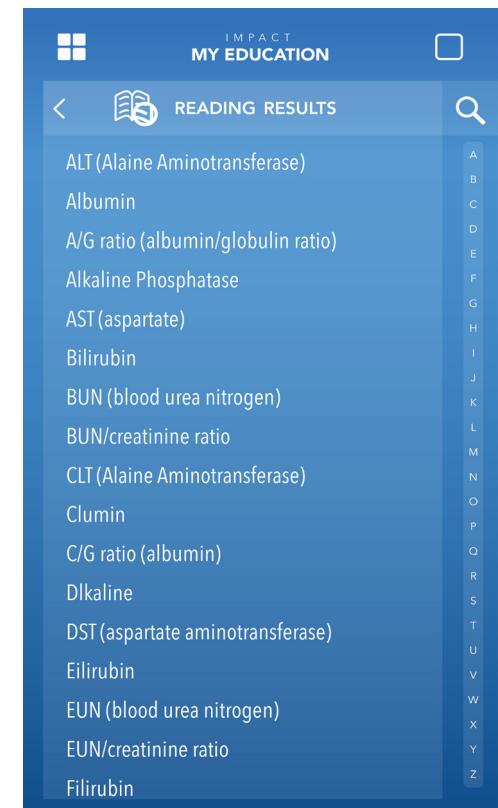
The landing page features a top navigation bar with the word "IMPACT". Below it is a grid of four icons: "MY JOURNEY" (bar chart), "MY EDUCATION" (book), "MY CALENDAR" (calendar), and "MY CONTACT CARE TEAM" (people). At the bottom, there are two columns of medical information:

Medicine	Route	Time	Notes
Crizotinib	Oral	8:00 AM	Dr. Smith: Check your calendar.
Cyclophosphamide	IV	10:30 AM	RN Opeski: Please bring your diary to your appointment at 10:30.
Topotecan	IV	4:45 PM	Dr. Vale: I'll call you at noon.
Home			
Liberty Clinic			
Base Day Hosp			



The calendar interface shows the month of May with days from 31 to 3. It includes a navigation bar with arrows for previous and next months, and a day view section below:

Day	Medicine	Route	Time
Monday, May 12	Crizotinib	Oral	8:00 AM
Tuesday, May 13	Cyclophosphamide	IV	10:30 AM
Wednesday, May 14	Topotecan	IV	4:45 PM

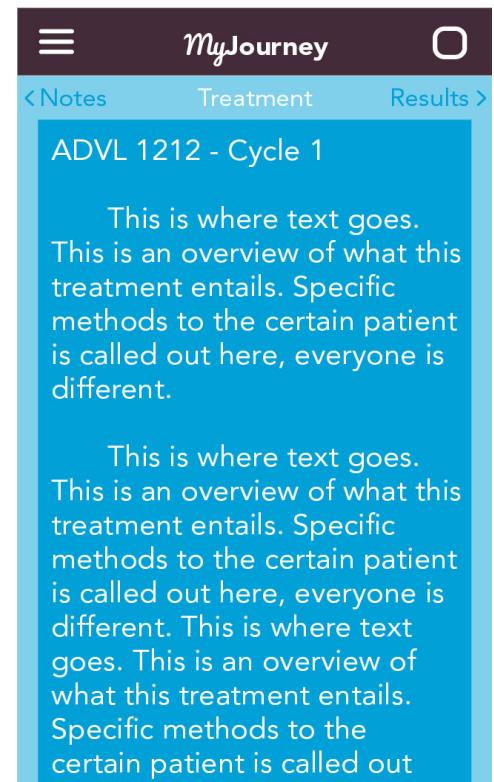
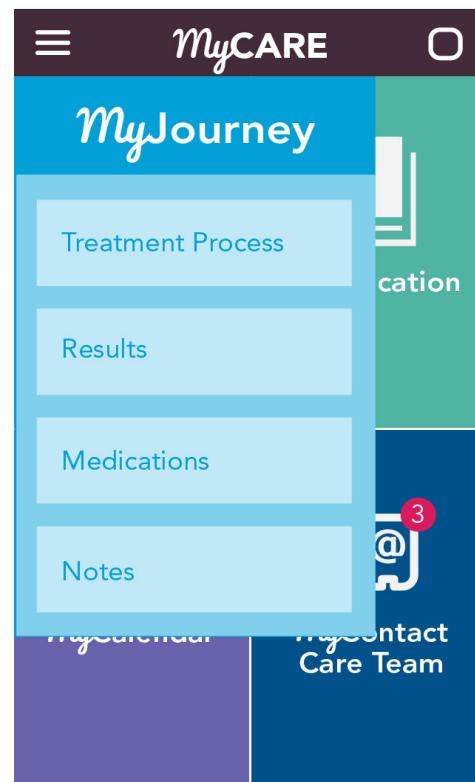
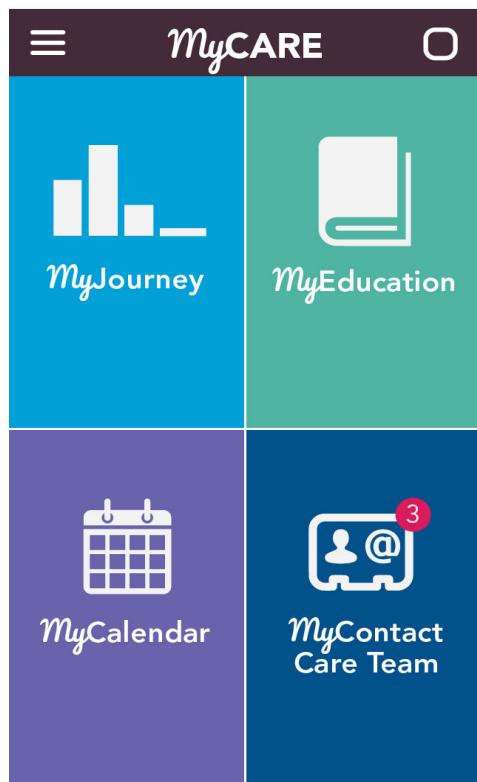


The education interface lists various medical results with a search bar and a vertical alphabet index:

Test
ALT (Alaine Aminotransferase)
Albumin
A/G ratio (albumin/globulin ratio)
Alkaline Phosphatase
AST (aspartate)
Bilirubin
BUN (blood urea nitrogen)
BUN/creatinine ratio
CLT (Alaine Aminotransferase)
Clumin
C/G ratio (albumin)
Dikaline
DST (aspartate aminotransferase)
Eilirubin
EUN (blood urea nitrogen)
EUN/creatinine ratio
Filirubin

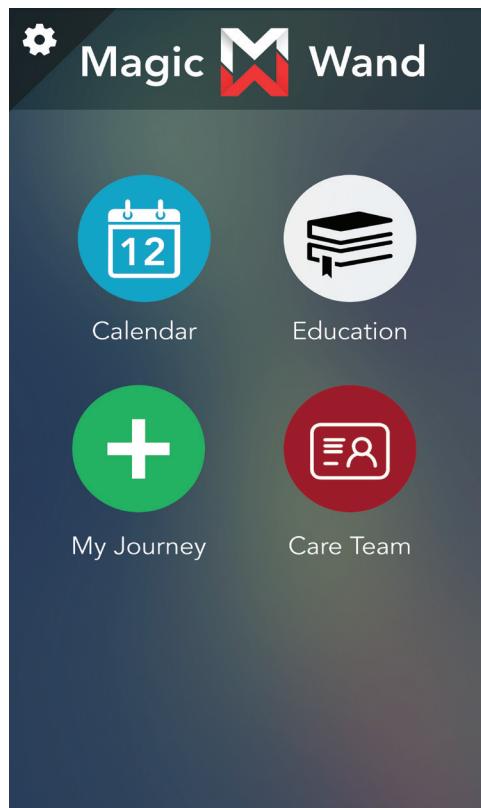
Concept 4

This concept uses a cool color scheme as the primary navigation tool. This concept uses larger text for clear and easy readability.



Concept 5

This concept uses a mix of flat design and abstract textures for navigation. Color is utilized throughout the application to identify which area of the app the user is currently accessing.



Process

A bar chart consisting of several vertical bars of different heights. One bar is colored green, while the others are a light grey. The chart is set against a dark blue background.

Induction Phase

The goal of induction chemotherapy is to achieve a remission. This means that leukemia cells are no longer found in bone marrow samples, the normal marrow cells return, and the blood counts become normal. (A remission is not necessarily a cure.)

Common Medications

Children with standard-risk ALL often receive 3 drugs for the first month of treatment. These include the chemotherapy drugs L-asparaginase and vincristine, and a steroid drug (usually dexamethasone).

At the bottom are four small circular icons: a green one with a white line graph, a white one with a green line graph, a red one with a white Rx symbol, and a blue one with a white clipboard.

Education

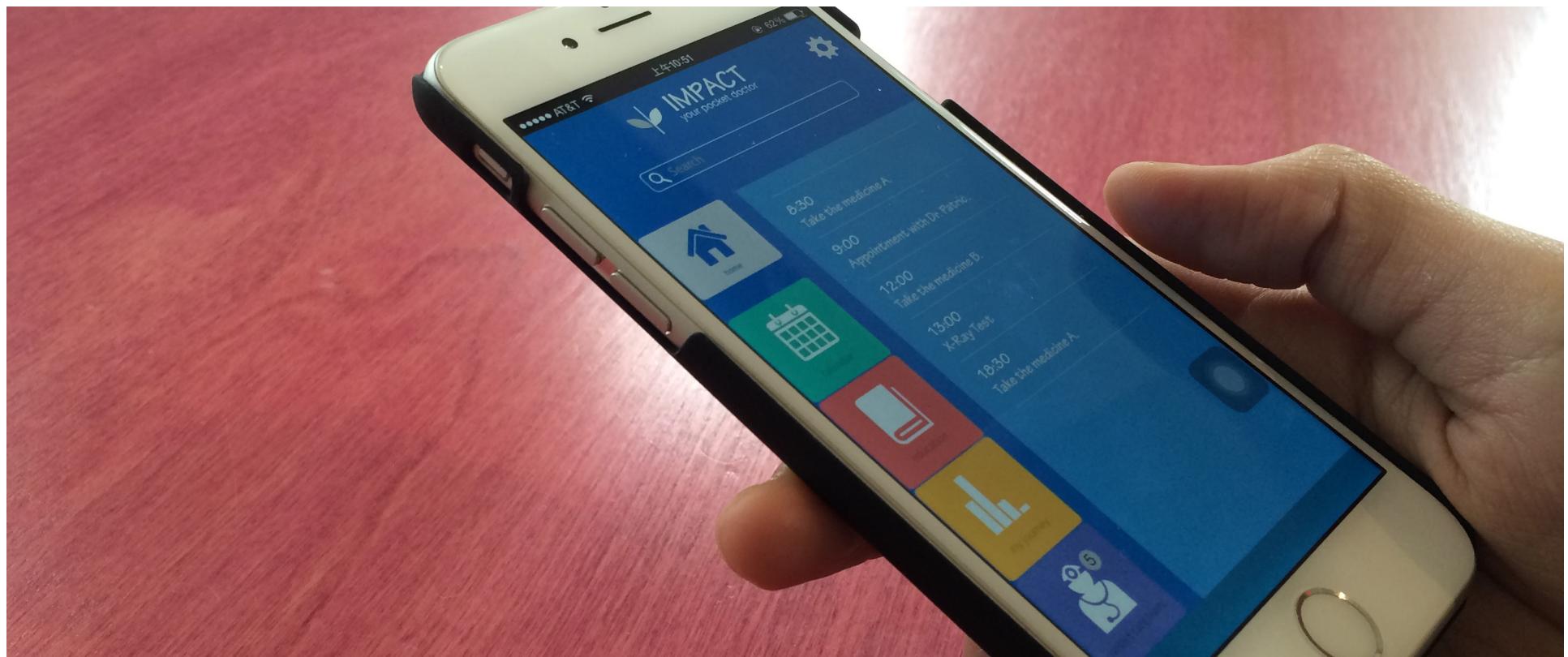
A search bar at the top with the placeholder 'Medications | All | Terms'. Below it is a vertical list of items starting with 'A' and ending with 'Z', each preceded by a small icon. The list includes: Abraxane Paclitaxel Injection, Acute, Adcetris Brentuximab Vedotin, Adriamycin Doxorubicin, A/G ratio Albumin/globulin r..., ALT Alanine aminotransferase, Albumin, Alkaline phosphatase, AST Aspartate aminotransferase, Beleodaq Belinostat Injection, and Bexxar Tositumomab. At the bottom are two buttons: 'Medication' and 'Medical Term'.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Collaborate

Concept Test

To test the concepts, the team used app building programs InVision and Marvel to build out the five prototypes. These prototypes served as the basis for testing the look, style, and feel of each concept. Each concept had limited functionality.



Icon Test

The team created four to eight testable icons per category and subcategory of the app's information architecture. These testable icons were organized by category and subcategory and were presented to the study participants to test clarity and relatability.



Color Style Test

To test color palettes, the team created three different color or mood boards showcasing three to four color options. The palette options ranged from warm to cool, monochromatic to polychromatic, and desaturated to saturated color schemes.



Refine

Results for Concepts

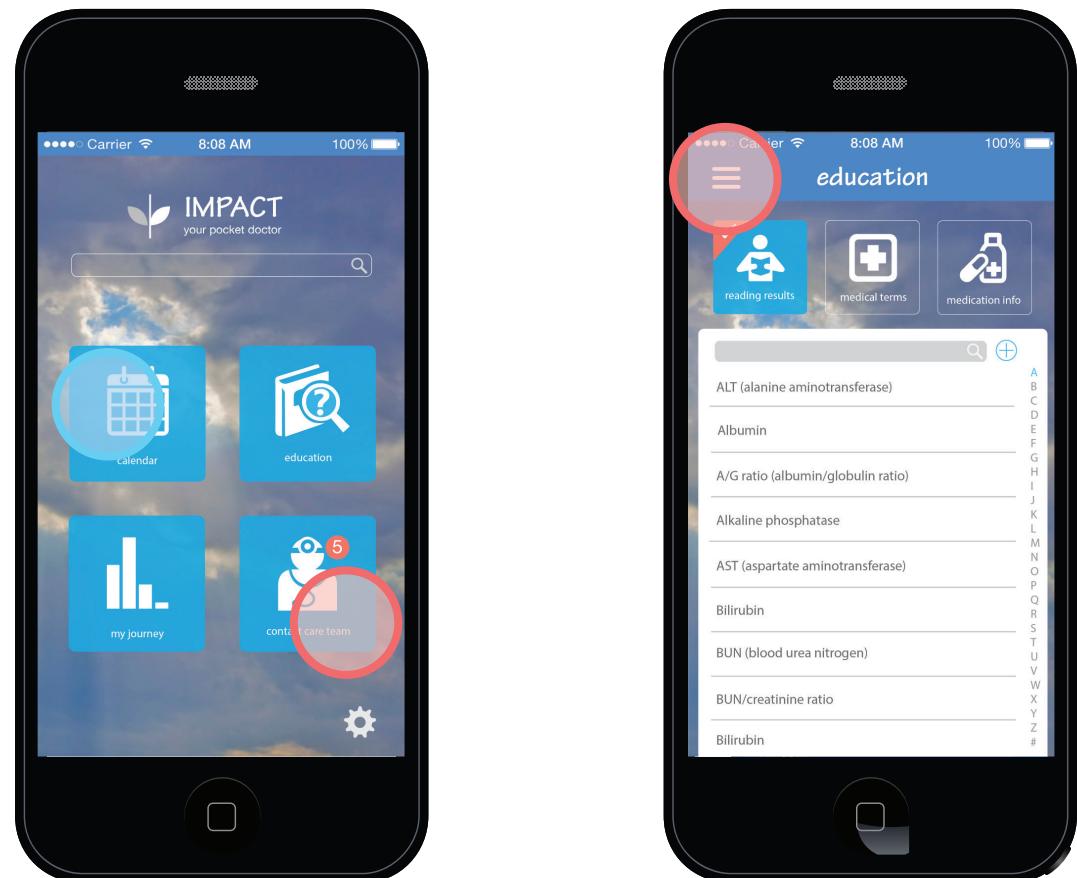
Concept 1

Pros

- Good overall design and text size
- Liked the design and graphics
- Buttons are clear and easy to understand

Cons

- Appointment function not designed how user with function
- Needs back button for easier functionality
- Prefers home or hamburger icon instead of logo



Results for Concepts

Concept 2

Pros

- Like the colors, easier to differentiate sections
- Likes placement of calendar events and messages on the home screen
- Navigation is very functional, similar to One Note
- Recognizable style to Facebook app
- Tabs are very efficient

Cons

- Needs a swipe feature for navigation



Results for Concepts

Concept 3

Pros

- Color scheme is calm
- Likes the way the appointment information is laid out

Cons

- Navigation is not very functional (could not get back to homescreen)
- Messages and medications on home screen not organized



Results for Concepts

Concept 4

Pros

- Popular color palette
- Text and icon size very clear
- Contact Care Team page with images worked very well

Cons

- Navigation is clumsy
- Needs a home screen button



Results for Icons

71%



57%



71%



43%



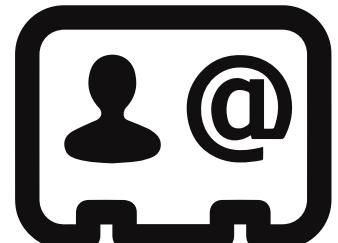
My Journey



Education



Calendar



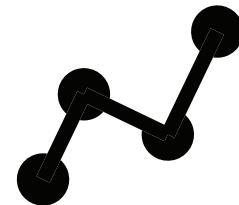
Contact Care Team

Results for Icons



My Journey

57%



My Process

28%



My Results

43%



My Medications

43%



My Notes

Results for Icons



Education

43%



Reading Results

28%



Medication Information

43%



Medical Terms

28%



Resources

Results for Color Style



Synthesizing Results

Concept Results

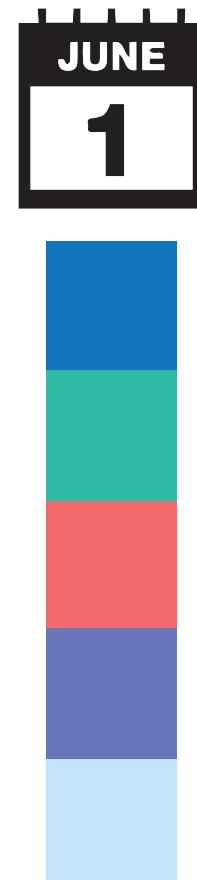
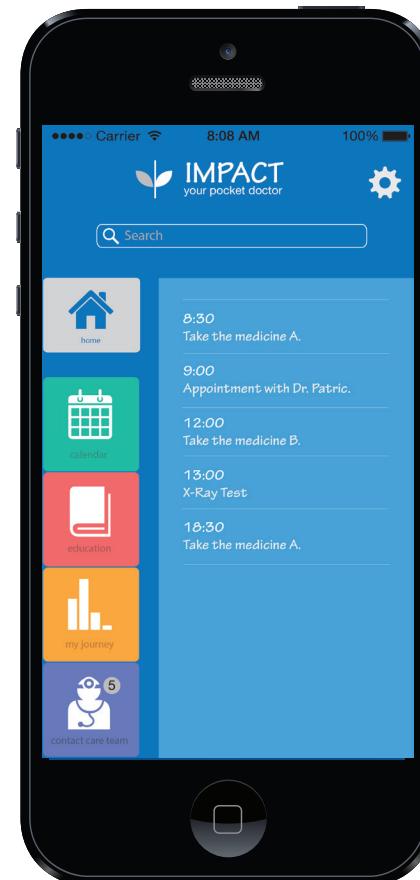
A concept with a familiar navigation and live feed is desired. The calendar should provide appointment information, location, time, what to expect, and who they will be seeing. The app should be able to sync with other calendar and organizational apps.

Icon Results

Icons made more sense using a similar language. The calendar icon should incorporate a live date.

Color Style Results

Families wanted a cool color palette with high contrast notifications.



Next Steps

What's Next

