Homeless Kiosk App





Spencer McDaniel, Sabryna Voss, Jorge Arroyo, Libby Houdek, and Nicholas Guy

Table of Contents

1	Cover page		
2	Table of Contents		
3	Users and Objectives		
4	User and Business Goals		
5	Additional Research		
6	Interview Questions and Answers		
7	Competitive Analysis		
12	Personas		
15	Heart Goals		
16	Moodboard		
19	Information Architecture		
22	Journey Map		
25	User Flows		
30	Wireframes		
50	High Fidelity Designs		
73	User Testina Summary		



Users

The users are homeless / impoverished people who do not have easy access to medical care and need a streamlined experience for access.

People who may not be homeless, but are living in poverty.

Individuals who may need quick access to medical care (may be redundant).

People that are homeless/in poverty who have a disability or impairment.

People who speak another language that is not English.

People that do not have a lot of experience with digital media.

Focus on teens and pre-teens that don't have access to medical care.

People who don't have food options.

Objectives

The goal of this project is to create an application that provides the functionality necessary to support homeless people with any of their essential needs like medical. As well, another main mission of this project is to make the application accessible to a majority of homeless individuals, regardless if they are non-English speaking or illiterate.



User Goals

Business Goals

Able to access the proper channels to receive assistance (for housing, food, medical, and other essential needs)

A translation or setting for non-English speakers

A simple interface that any novice digital user can approach

Provide a plan of action to help teens and young adults

Application is useable to anyone regardless of impairments

Application accommodates for illiteracy and non-English speakers

Provide assistance and the proper channels for any issue with the userbase may have

Improve the users' lives for the better

Equip users with a plan and skills necessary to leave homelessness

Additional Research

Some additional research was conducted with the intent to learn more about the digital use that homeless people currently have. The "Trends and Friends" research document by Gerard Lemos and Sarah Frankenburg highlights some of the issues homeless and ex-homeless users stated about device usage and internet access. The majority of participants in this study considered themselves to have "passable" skills in navigating the digital landscape. Finally, the participants outlined the most important uses of their digital technology, which were to keep in contact with friends and family and entertainment purposes.

"The Digital Lives of Youth who are Homeless: Implications for Intervention, Policy, & Services" research document, by Anamika Barman-Adhikari, Eric Rice, Laura Onasch-Vera, & Mary Hemler, covers the issues of digital native youths that are impacted by homelessness. One of the main concerns among the homeless youth is that social media provides an outlet for frustrations, and not having that outlet is harmful to them. Another concern is that smartphones have social service applications available to them, so internet access is becoming an essential need for homeless youths to find assistance. Finally, youths reported that these social service apps were "fun" when the interfaces were simple and not cluttered.

Links to Additional Research

Trends and Friends link:

https://lankellychase.org.uk/wp-content/uploads/2015/01/Trends-and-Friends-2015.pdf

The Digital Lives of Youth who are Homeless: Implications for Intervention, Policy, & Services link:

https://www.homelesshub.ca/sites/default/files/attachments/Ch3-7-MentalHealthBook.pdf

Interview Questions and Answers

Is there assistance for those suffering from withdrawal symptoms or addictions?

The ability to help with drug addiction with this iPad application is a bit out of scope currently, but would appreciate it. Dictation on iOS could be a solution.

Will this be designed with the possibility of illiteracy in mind?

Yes, many homeless people do not read often or do not speak/read English. Would like spanish option

What type of accessibility will you be requiring or should be an option within the kiosk?

Kiosks are temporarily not the goal of this project due to COVID. Should focus on the iPad application

In what ways will MyChart be implemented into the kiosk?

Not a direct priority for the iPad application, but one solution is Piecesconnect.

How do homeless shelters find counselors and psychologists to provide counseling and therapy for the homeless individuals?

Counselors and psychologists have to be certified for documents to be signed off by the government

Very stressful job & hard to find those with these qualifications Each company/shelter hires these positions, like the Salvation Army

Competitive Analysis Company 1: United Healthcare

UI Evaluation:

- 1. Welcoming and professional color scheme
- 2. Minimal design with lots of empty white space
- 3. Minimal amount of text throughout all screens
- 4. Clear hierarchy of text through font, size, and color

UX Evaluation:

Minimal tappable areas on a screen Multiple levels of detail and explanations if user would like to enquire Material design used consistently throughout the application; promotes a hierarchy of content Use of white cards on a gray background to promote contrast









Summary

United Healthcare is a very minimally designed healthcare application where you can find doctors, specialists, or healthcare facilities along with many other features. The layout and hierarchy is consistent and clearly displays information based on level of importance. The use of icons and other graphic design elements further help reinforce where the user is in the process. This would be a very good application to study further regarding design and content.

Competitive Analysis Company 2: Plushcare: Online Doctor

UI Evaluation:

- 1. Very simple color scheme and font
- 2. Material design map function used, full width of the screen
- 3. Progress/Completion bar at the top of screens
- 4. Profile images of doctors are displayed next to names

UX Evaluation:

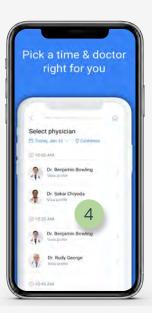
Video chat function inorder to get in contact with doctors

Icons are an important role of visually displaying information

Drop down menu to select the date to schedule an appointment

Header lacks labels, relies on iconography to convey its purpose









Summary

This application seems to be very minimalistic in design and functionality. Most of the information that is put into the app is done by the medical professional. There are options for important information such as if they have healthcare or not that the user puts in. The use of a mapping feature within the app for nearby pharmacies could be very beneficial to implement into the kiosk.

Competitive Analysis Company 3: FollowMyHealth

UI Evaluation:

- 1. Navigation bar at the bottom of the screen
- 2. Clear hierarchy of information
- 3. Color scheme is professional but dull and unenergetic
- 4. Inbox screen is crammed and doesn't have Users are able to complete billing/financial room to breathe

UX Evaluation:

Inbox function allows users to stay within application

Users have the ability to view test and lab results

information within the application Passcode and TouchID are available to use for sign in









Summary

The use of a navigation bar with icons at the bottom of the screen is used extremely well. The information is laid out well and is in the appropriate categories. There are lots of opportunities to put in and keep track of information that are really useful. Although there are lots of options and customization available users may get confused on how much information is in front of them. Professional application, but could be minimalized and have more personality.

Competitive Analysis Company 4: Teladoc

UI Evaluation:

- 1. Log in screen with a registration option at the bottom
- 2. Very boxed design, with colored lines segmenting content
- 3. Different colors for different categories/sections the user is in
- 4. Buttons extend to the width of the screen

UX Evaluation:

Visually pleasing color scheme that displays professionalism and character No labels on the header, relies on iconography to convey its use Buttons within each category that lead to information that needs to be filled out Parents can keep track of multiple people within the application









Summary

Teladoc is a very complex yet easy to navigate application. The different colors, fonts, and sizes are used effectively. There are many features within the application that we should reference or use within our own application. Teladoc will be a great reference for ideas and organization. Also teladoc is a service provided as a benefit through employers, health insurance, or other organizations.

Competitive Analysis Company 5: Healow

UI Evaluation:

- 1. Circular selection wheel to navigate on home screen
- 2. Spacing between content seems inconsistent with not enough room to breathe
- 3. Buttons are not full-width, also tabs blend into the header
- 4. Icons help to effectively communicate different functions within the app

UX Evaluation:

Fonts and color scheme are cohesive, promote a friendly experience Facetime like feature to communicate with doctors

Ability to set goals and track them easily There is a hierarchy, but not enough contrast between fonts, size, and color









Summary

This application seems to be at an odd in between of functionality and visual interest. The application has lots of functionality, but the layout and hierarchy don't properly display all the information. There is a lack of contrast between information that is at the detriment of the user.

User Personas

Name:

Jaime Garcia

Occupation:

None

Demographic:

17

Male

Lives in Peoria

Has a younger brother and elderly mother

His mother is an immigrant that doesn't speak much english

Lives in 1 bedroom apartment with family

Goals and Needs:

Jaime is the oldest member of his family that speaks english. His little brother is too young to understand how to deal with medical situations and Jaime's mother does not speak english. Jaime needs a place where he can get medical assistance for him or his family that is easily accessible, easy to function, and easy to pick up and learn.

Pain Points:

Jaime does not have much experience with receiving medical coverage, due to the fact that his mother does not speak english and his little brother is not old enough to figure this process out.



User Personas

Name:

Sandy Doo

Occupation:

Works in fast food service

Demographic:

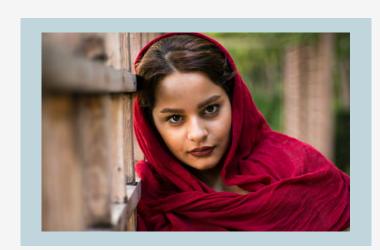
22

Female

Peoria Resident

Lives on friend's couch

Got out of abusive household



Goals and Needs:

Sandy was living in an abusive household and decided to move out. She is currently living on multiple friend's couches and is using the little she earns to help pay for bills. Sandy needs a guick and simple way to access medical care and other essential services.

Pain Points:

Sandy has a lot on her plate to deal with while she looks for a way to get back on her feet. Any type of stress or difficulty at this time would be a turn off, due to current events in her life.

User Personas

Name:

Robert Kewls

Occupation:

None

Demographic:

65

Has been homeless for 8 years

Lives in Peoria

Recently started to feel chest pains as unsure of what it could be



Robert does not have his own place to stay and is moving from shelter to shelter. He is looking for a service that will allow him to get the essentials he needs to get by, as well as a form of medical check up.

Pain Points:

Robert is getting older and struggling to move around as easily. Combined with the recent chest pains, Robert is starting to panic about receiving the medical attention he might need.



Heart Goals

	Goals	Signals	Metrics
Happiness	Users feel satisfied after using the application. Users feel like their experience is catered to them individually	User satisfaction surveys through nurse User feedback questionnaires	User Surveys Review out of 5 stars Well-being has improved
Engagement	Users keep returning to application Users refer others to the application	Users come back to application to report other issues Spend time exploring all the features the application offers	Analytics implemented Time spent on application
Adoption	Users actively try to access the service/application for their medical needs/inquiries.	Users log on multiple times, even regularly, in order to complete tasks and find information.	Number of times users have used the program over time.
Retention	Users are able to remember how to use the application over time from one session to the next.	Users are able to login repeatedly with no outside help.	Amount of task completed during length of session
Task success	Users complete their selected function efficiently and without trouble	No outside help is needed for a task Tasks are finished efficiently	Function Completeness rate User exit rate Heat Map Users attended appointments

Moodboard Homeless Healthcare Kiosk App

Typography:

Heading: Raleway

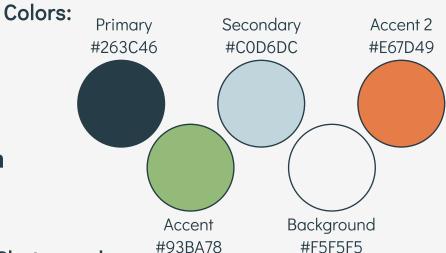
Subtitle: Raleway Body Text: Didact Gothic

Heading: Verdana

Subtitle: Verdana

Body Text: Verdana

Textures, Patterns, and Photography:























Moodboard Homeless Healthcare Kiosk App

App Icon:



Iconography:



Illustrations:

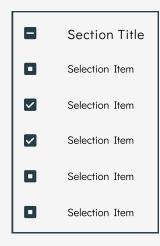


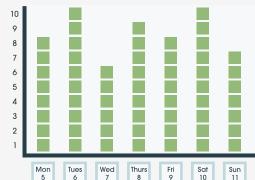
Moodboard Homeless Healthcare Kiosk App

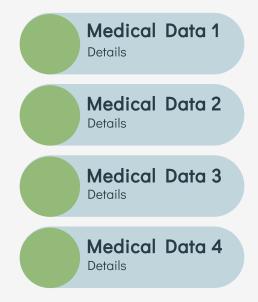
UI Elements:

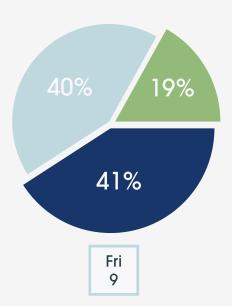












Information Architecture: High Priority

MyChart

Credentials (Full name, email, password) Portal to either MyChart application or website

Explanation of MyChart (Infographic or something)

Schedule Doctor Appointments

Select Location (Map feature)

Select Doctor

Select Time (Shows available times)

Notes or symptoms (Form field/Multi select)

Schedule Counseling Appointments

Select Location (Map feature)

Select Doctor

Select Time (Shows available times)

Notes or symptoms (Form field/Multi select)

Schedule Dentist Appointments

Select Location (Map feature)

Select Doctor

Select Time (Shows available times)

Notes or symptoms (Form field/Multi select)

Create Email account

Create email name

Create password

Confirm email name and

password

Forgot/Reset password

Locate Food

Locate stores that have discounted deals on foods/cheaper food prices

Locate soup kitchens or services around Peoria that serve food to homeless

Handicap or Disability assistance

Voice to text

Text to voice

Color Blindness setting

Link to public resources

Categorized list of different resources

Summary of source and hyperlink



Information Architecture: Medium Priority

Care-A-Van info

Graphic that shows the schedule of the Care-A-Van (location, times) Explanation on what the Care-A-Van is

Set up ride to Appointments

Distance to appointment Links to public transportation

Translation to Spanish

Select language upon startup

Text should be similar size and design in spanish dictation

Resume Builder

Goes through basic steps of putting a resume together External link to google doc templates Print function

Receive assistance from nurse

Large button available on every screen Confirmation screen if users need help

Accessibility for illiteracy

Iconography to explain features Text to speech Speech to text Dictation

Incentive

Bus Voucher for scheduling appointment



Information Architecture: Low Priority

Fingerprint ID

Open to login/sign up page

Once signed up, ask if they would like password saved

Password saved would allow user to login using apple fingerprint scan

Coach Marks

Creates path underneath the header

Function has links to go back to previous pages

Tracking user-attended appointments

Opens up to profile

Infographic which shows statistics about how many appointments they have attended

Locate everyday living essentials: Toothbrush, deodorant, etc

Locate drive or resource that donates essential needs to homeless people that show up

Locate coupons to buy essentials at stores

Food Pantry Locator

Map feature

Directions to nearest food pantry

ID Photo/Information

Opens camera feature

User Satisfaction Survey

Questionnaire that rates user satisfaction on a scale (1-10)

Allows users to comment on their rating

Job opening board

Select job search area

Select category of job (labor, etc.)

List of available jobs

Link to application

Journey Map



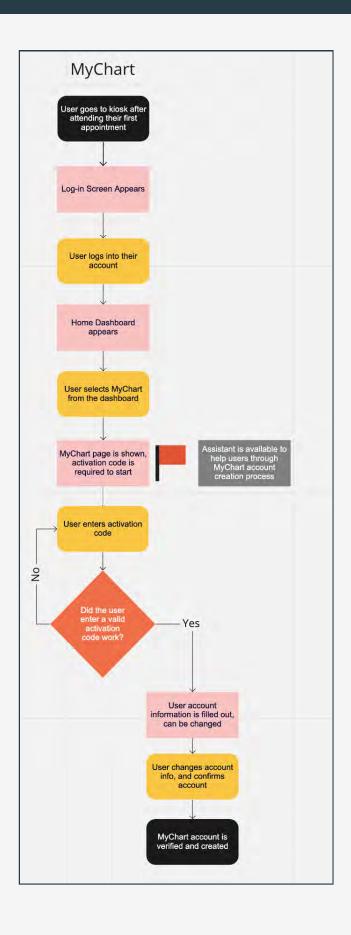
Journey Map

During Kiosk Phase of journey Actions Set up a plan for Locate services At the Kiosk the What does the the future (set up that are meant to User logs into/signs up to their Jump appointments, help homeless account to receive put together a people in the customer do? medical consultation resumé) nearby area **Touchpoint** Finding What part of the service Allows users to Have a location essential locate services for users to services through do they interact with? for homeless / routinely check Kiosk for medical history impoverished immediate help **Customer Thought** "I hope this "I might not "This seems What is the customer isn't too be up to like a lot of things to take hard to date on thinking? in at once" technology" use" **Customer Feeling** What is the customer feeling? **Opportunities** Put the individual Make the Provide essential application to the in the public services like medical most amount of system through care, locations to people possible food shelters, and MyChart and the (translation to assistance with the creation of an Spanish, disability weather / footcare email account accommodations)

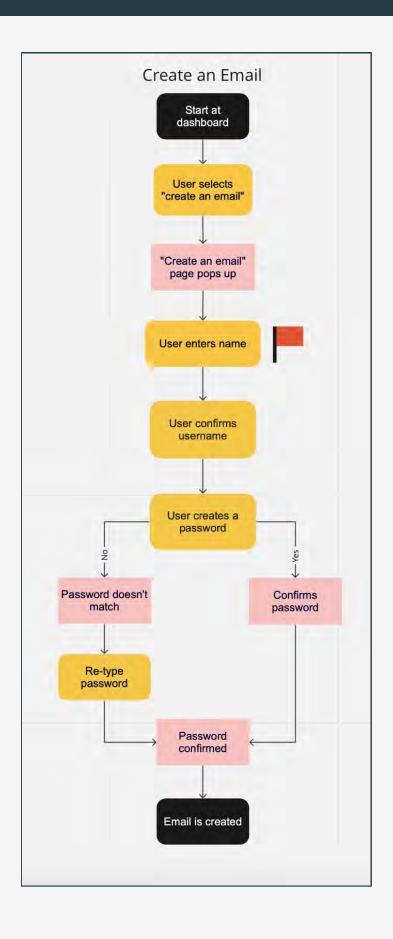
Journey Map

After Kiosk Phase of journey Actions Refer other Attend Keep coming What does the people who appointments back to kiosk may be in that were set for routine customer do? need of the up via the checkups kiosk service **Touchpoint** Improve Opportunity to What part of the service raise Find rides for living their awareness conditions do they interact with? about this appointments for users kiosk to others **Customer Thought** "That "I should tell "That What is the customer Bob about helped me wasn't as this, it could out quite a bad as I thinking? be useful for thought" bit actually" him" **Customer Feeling** What is the customer feeling? **Opportunities** Run analytics on Help users feel Create a positive how many less anxious / experience that appointments are the kiosk is confident attended, if users spread through about the next come back to the word of mouth few days kiosk

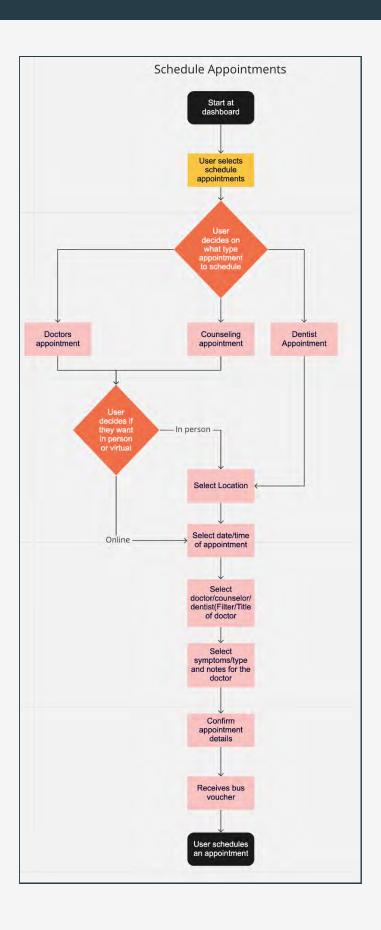
User Flows- MyChart



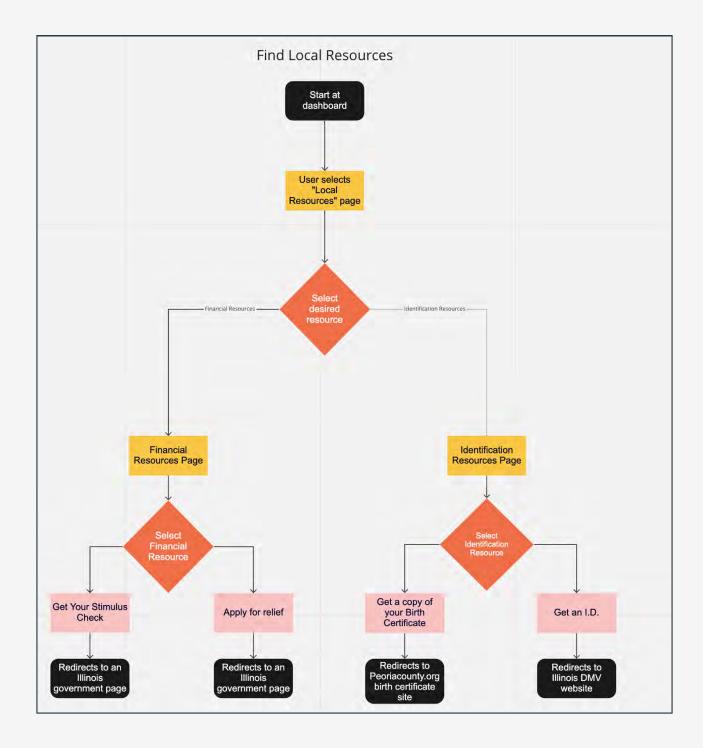
User Flows- Create an Email



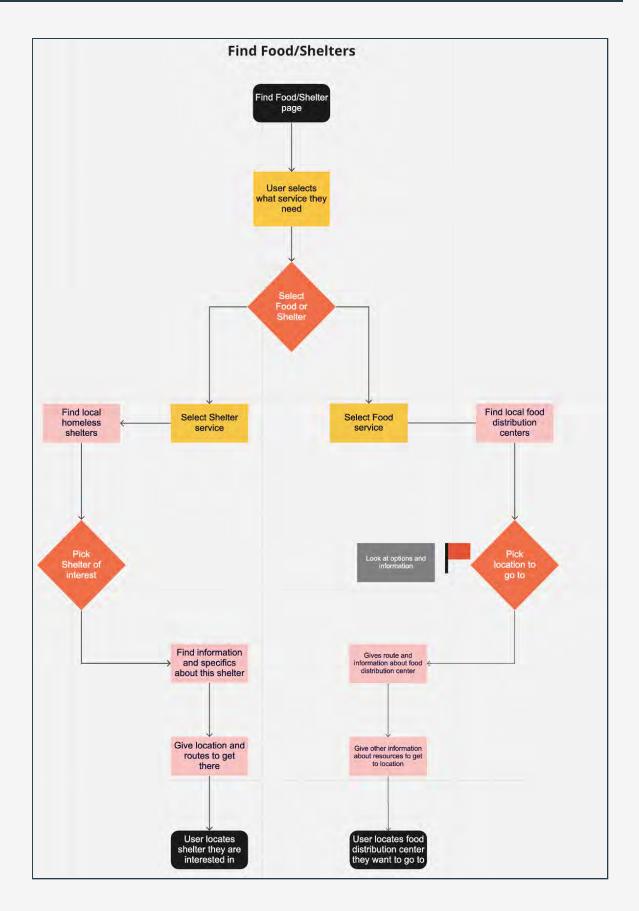
User Flows- Schedule Appointments



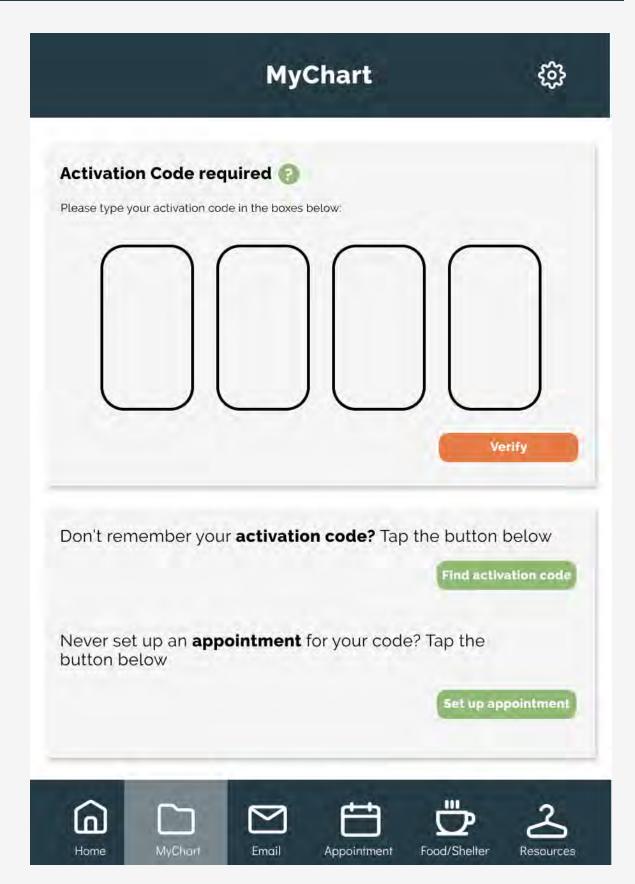
User Flows- Find Local Resources



User Flows- Find Food/Shelters



Wireframes- MyChart



Wireframes- MyChart

MyChart

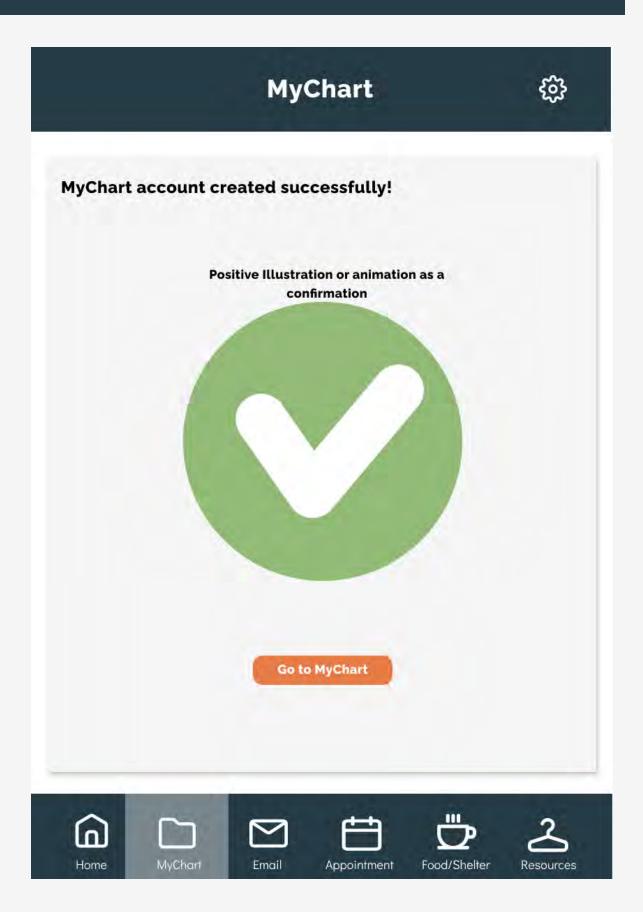
Email

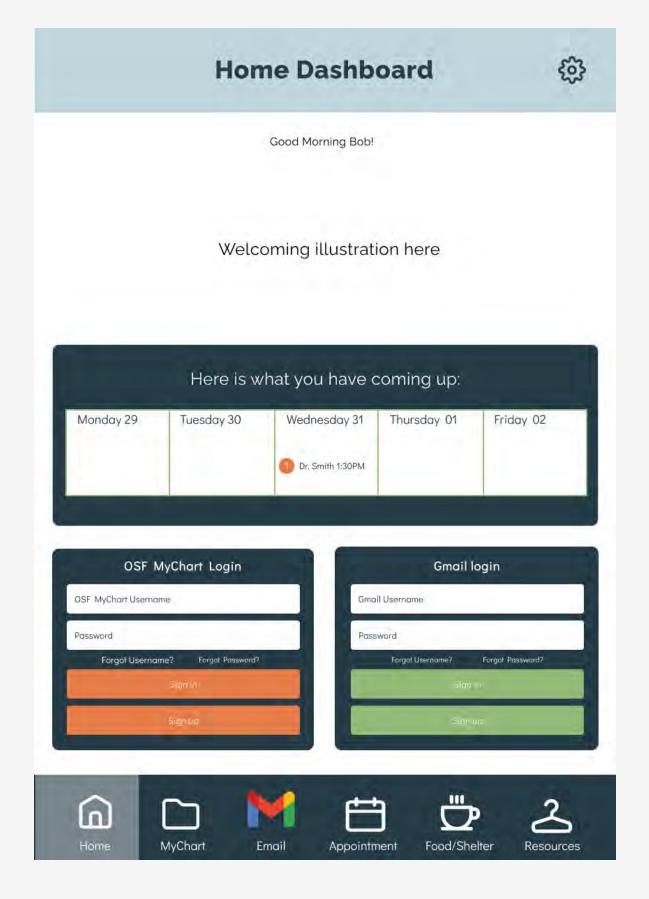
Appointment

MyChart Create MyChart account Some information has already been filled out based on your account details First name Last name Email address Password Confirm password Mobile phone number Birth Month Day Year By clicking "Continue" you agree to the Terms and Privacy Pallcy

Food/Shelter

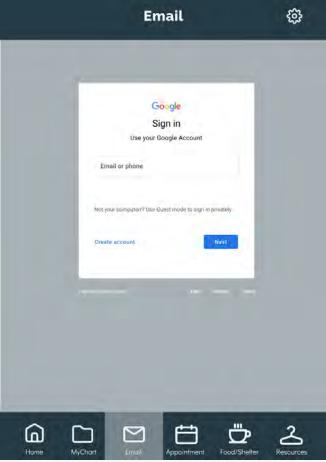
Wireframes- MyChart





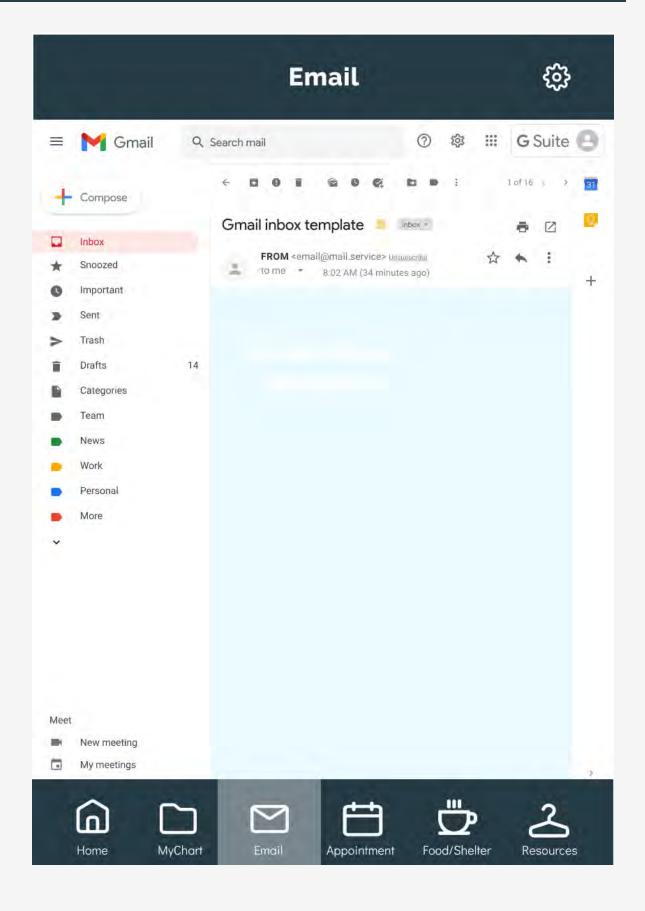




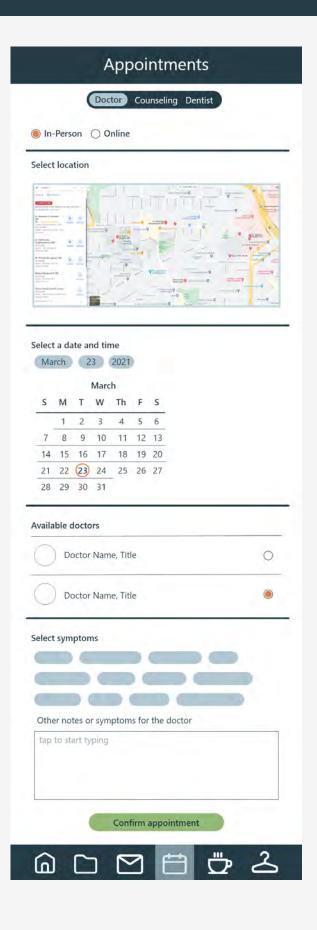




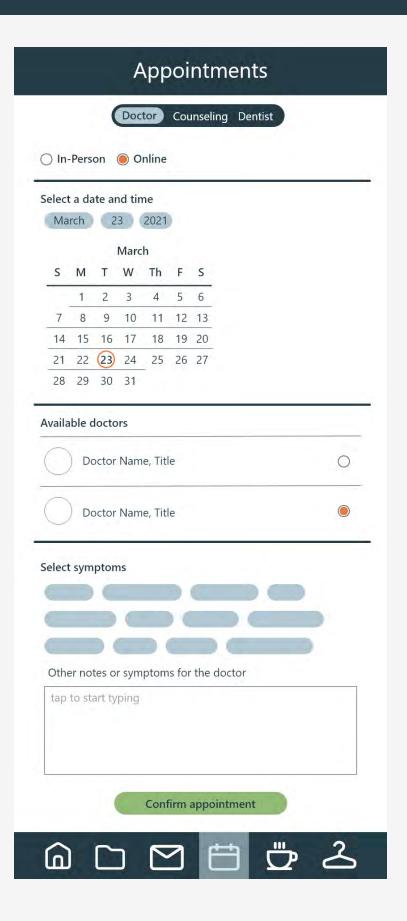
Wireframes- Create an Email



Wireframes- Schedule Appointments

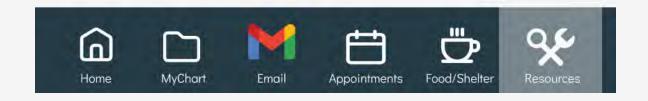


Wireframes- Schedule Appointments (Virtual)

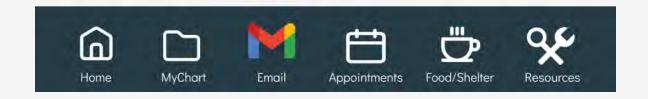












Personal Information Form



Recieving 3rd party assistance for filling out this form

Before filling out this form, please indicate if you are recieving help from a nurse or other person working at the shelter you are currently at. Click the corresponding button below that dictates whether or not you are recieving assistance, then click "continue to form".

I am recieving 3rd party assistance

I am NOT recieving 3rd party assistance

Continue To Form ->

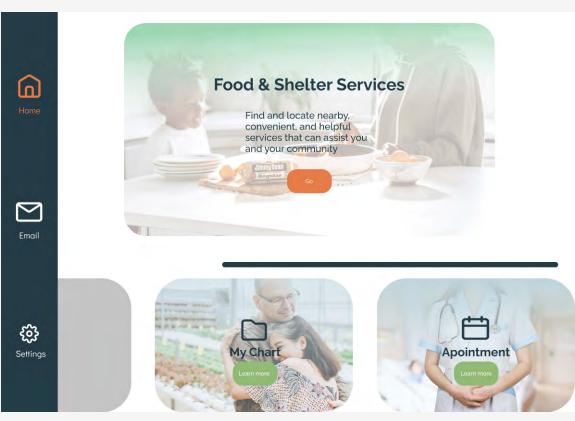


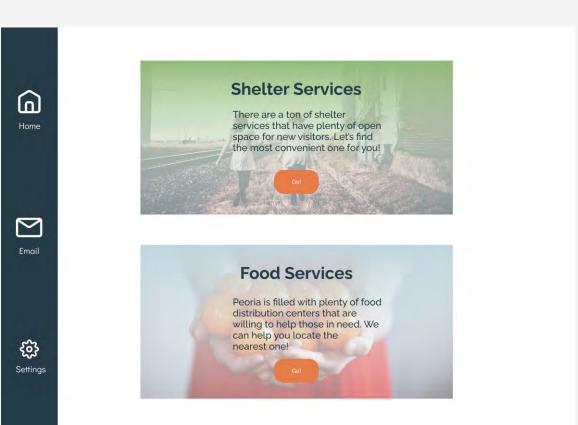
Personal Information Form

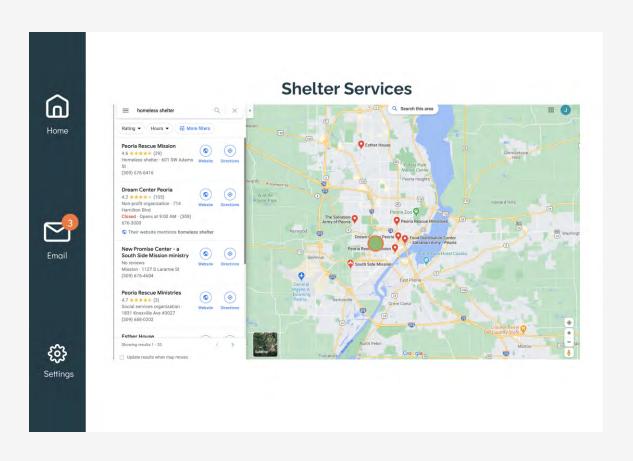


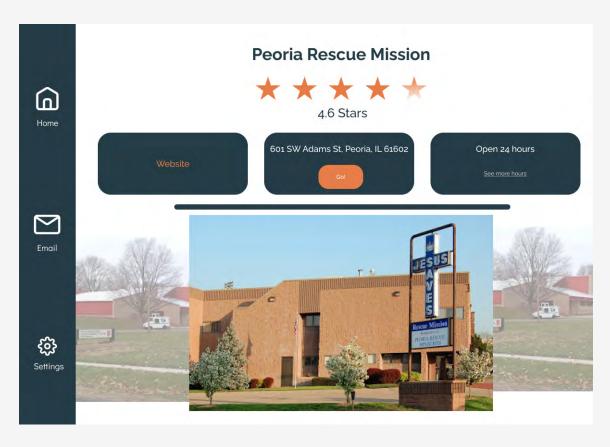
All of the information below must be filled out before continuing on to the next step. If you cannot fill it out completely, click "Save" to save your progress so far and contact someone working at the shelter you are at to learn how you can recieve the remaining information that you need in order to complete this form.

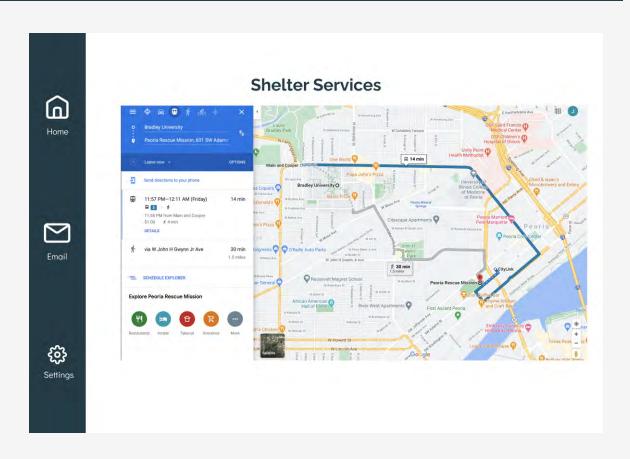
First Name	Middle Name
Last Name	Date Of Birth (MM/DD/YYYY)
Social Security Number	
Control of the Contro	ation Of Permanent Residence
Street Address	
Apartment / Suite Number (If Applicable) Ci	ty State
Zip Code	
	Save Continue
	06

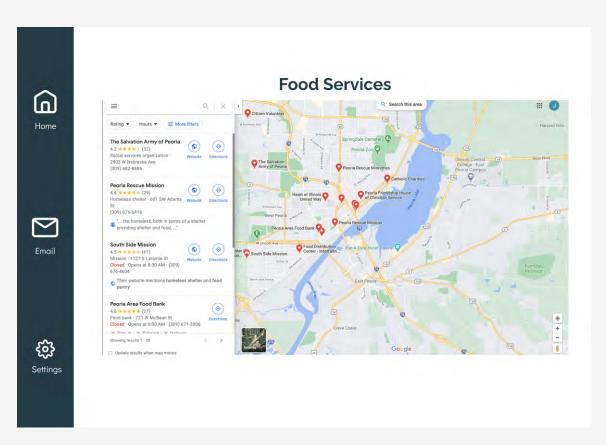


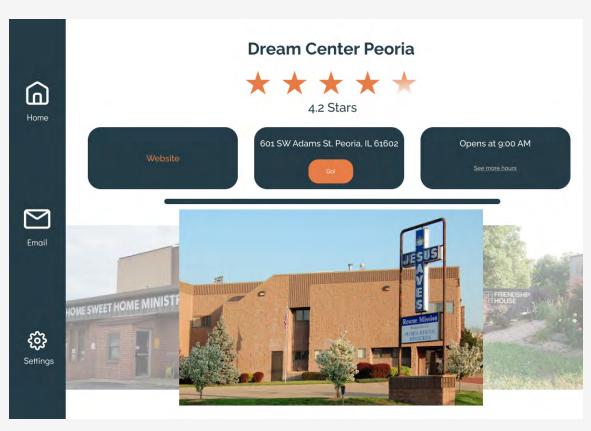


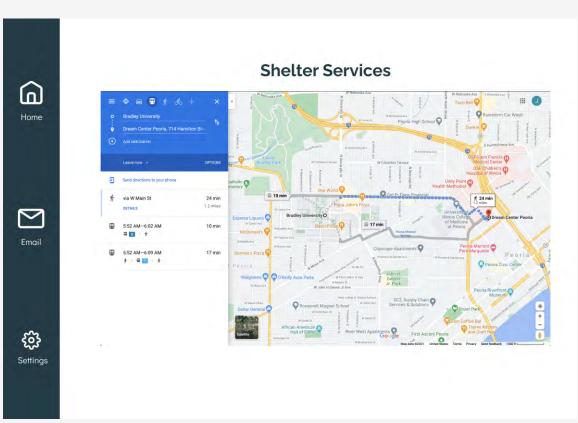












Wireframes: Additional Thoughts

After some research, we will have an option that switches the typography to a dslyexia-friendly font (Verdana)

The settings button will not take the user to a separate page, rather it will be a collapsable menu that contains accessibility settings.

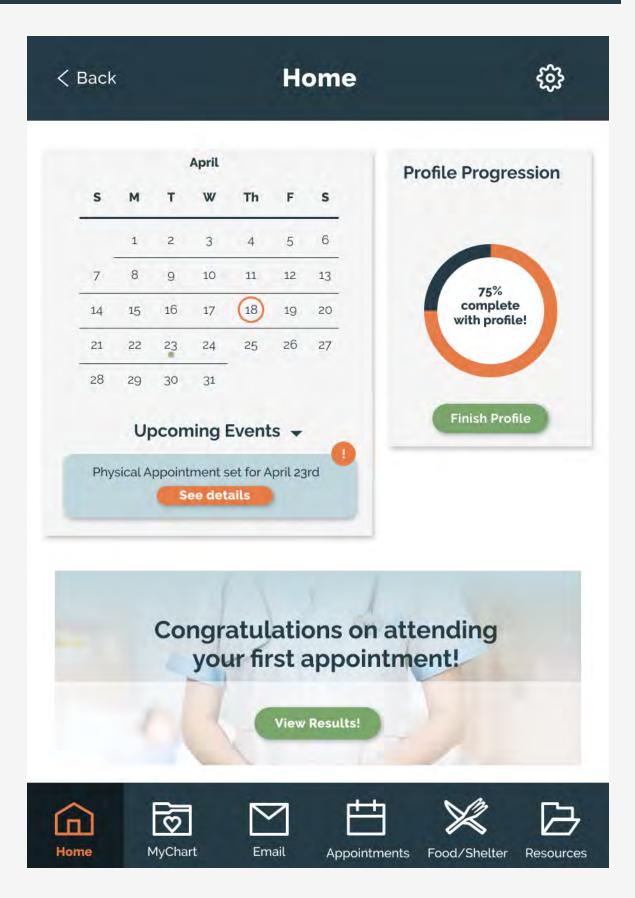
This allows users to change accessibility settings at anytime throughout the application

We will want to include animations and/or illustrations on our confirmation/success screens instead of a checkmark.

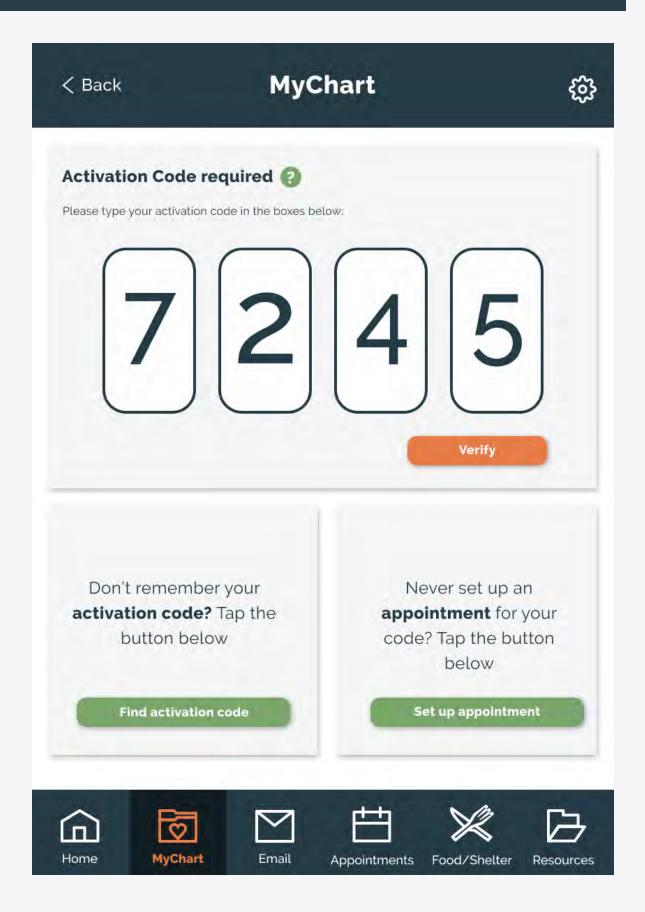
We will have a pop-up description page for each of our main functions that will describe what the function can do.



High Fidelity Designs- Home Screen



High Fidelity Designs- MyChart

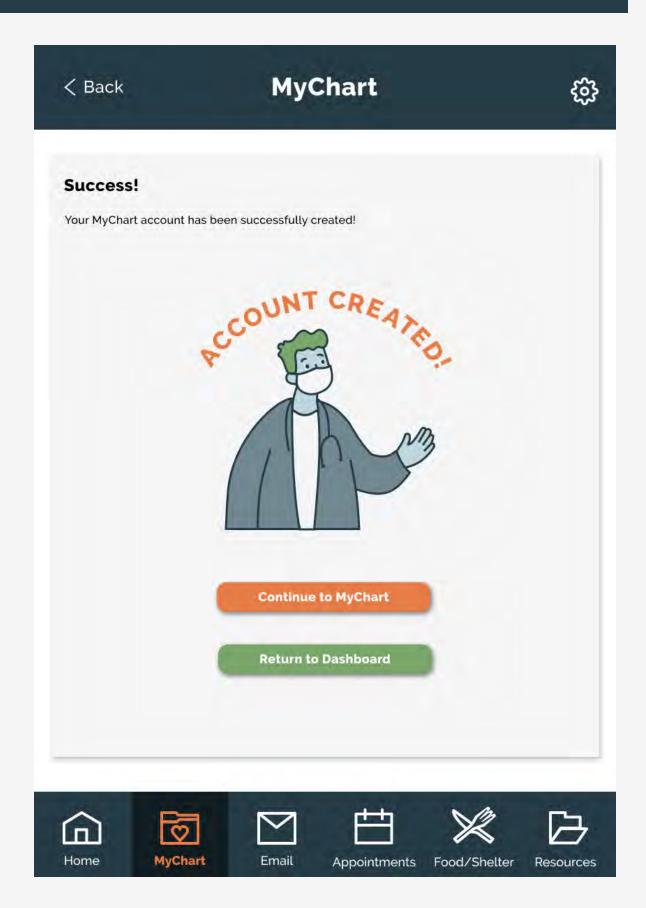


High Fidelity Designs- MyChart

	Chart account ②
Some information	on has already been filled out based on your account details
	First name Last name
	Email address
	Password
	Confirm password
	+1 Mobile phone number
	Birth Month Day Year
	By clicking "Continue" you agree to the Terms and Privacy Policy
	Create MyChart Account
	Need Assistance?

Appointments

High Fidelity Designs- MyChart



High Fidelity Designs- Email

MyChart

Home

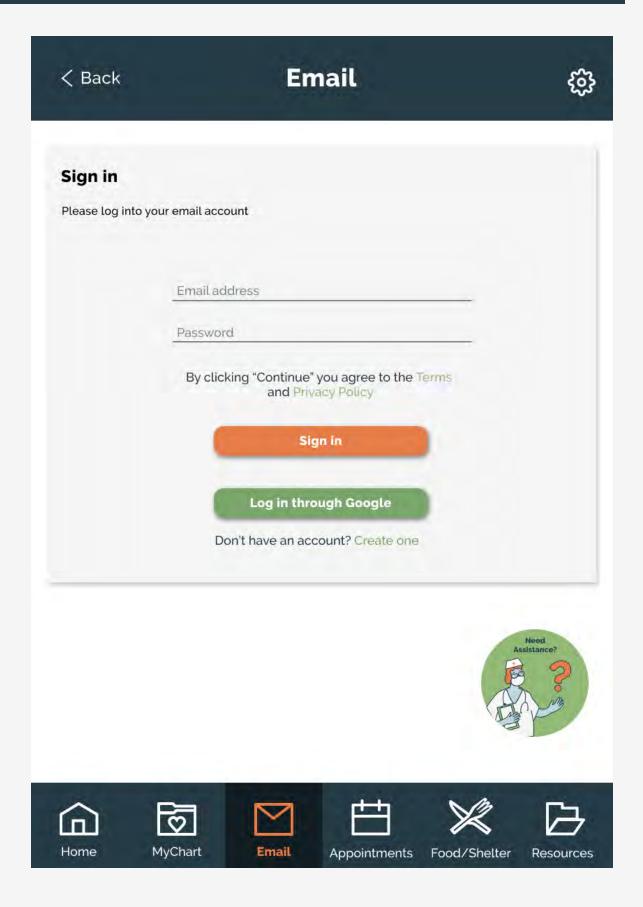
	nail Account		
Some information	on has already been filled (out based on your account details	
	First name	Last name	
	Email address		
	Password		
	Confirm password		
	+1 Mobil	le phone number	
	Birth Month	Day Year	
	By clicking "Conti and	nue" you agree to the Terms Privacy Policy	
	Creat	e Email Account	
	Already hav	e an account? Sign in	Need Assistance?

Appointments

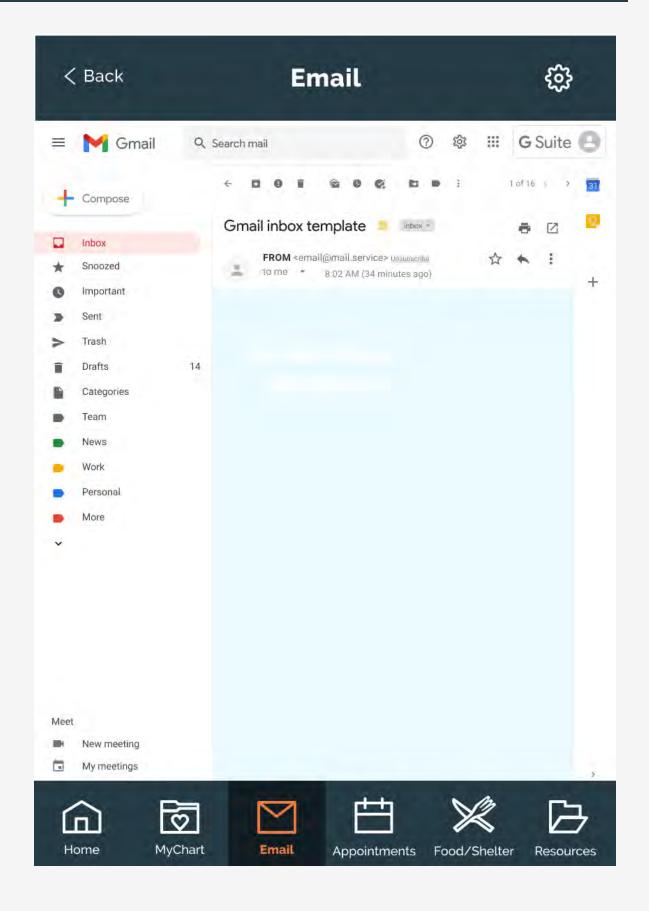
Food/Shelter

Resources

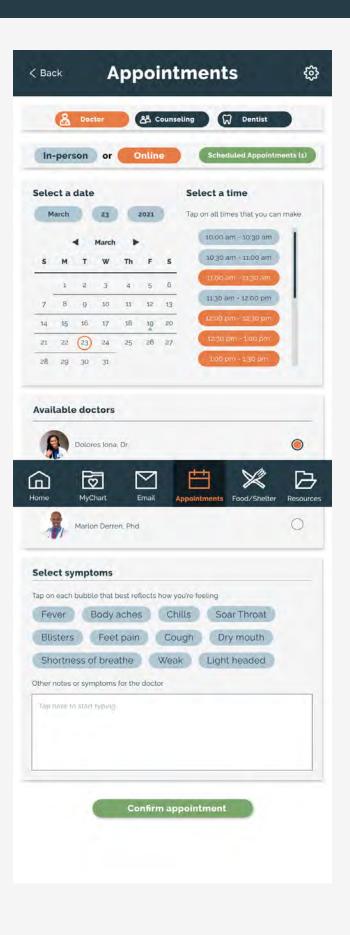
High Fidelity Designs- Email

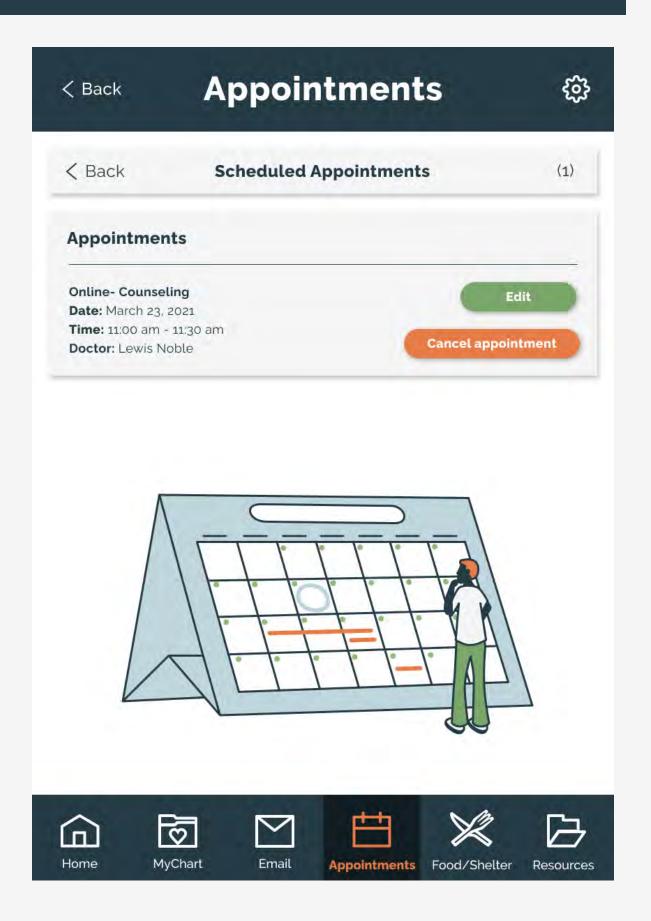


High Fidelity Designs- Email

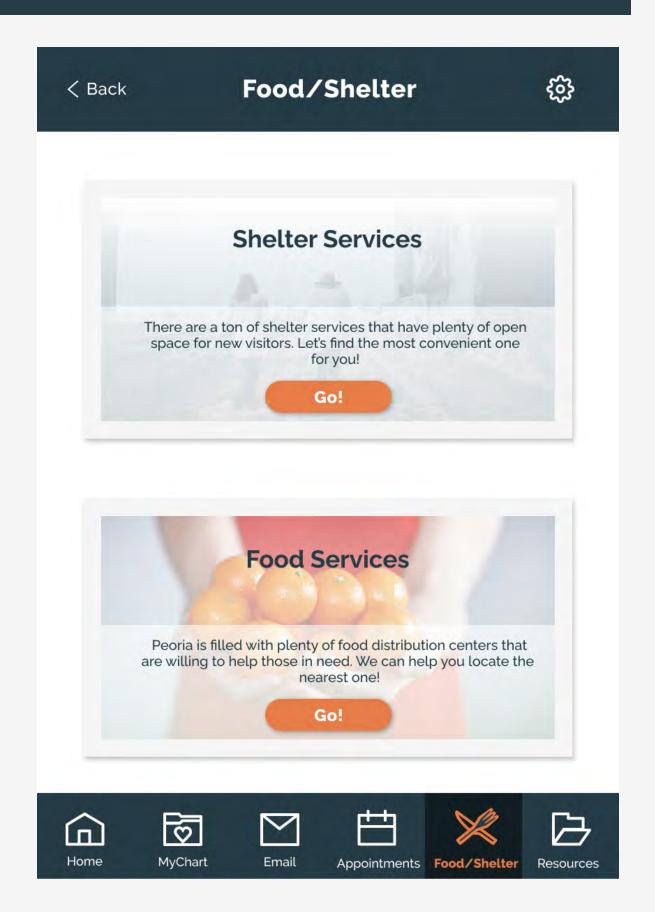


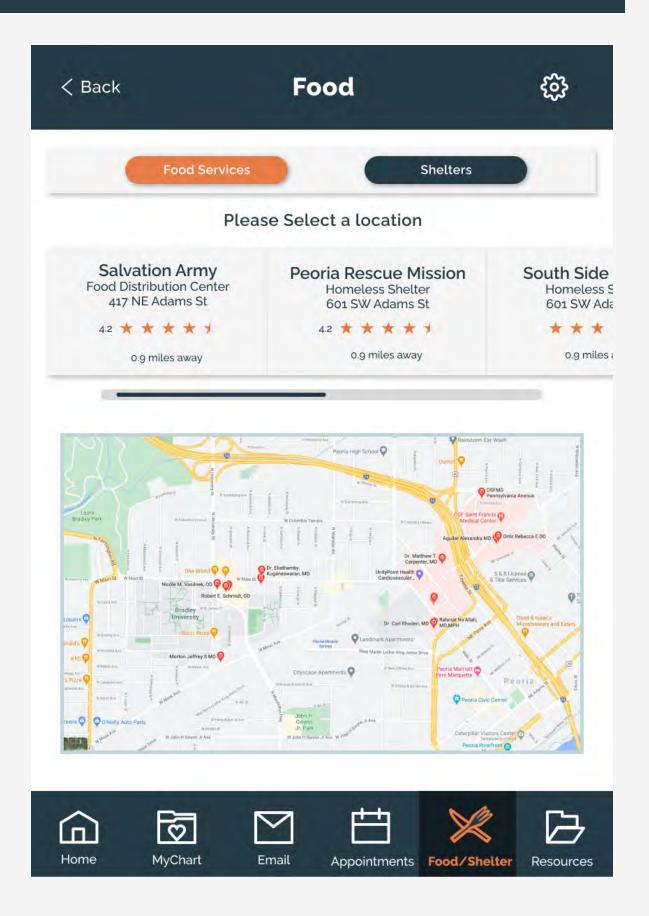


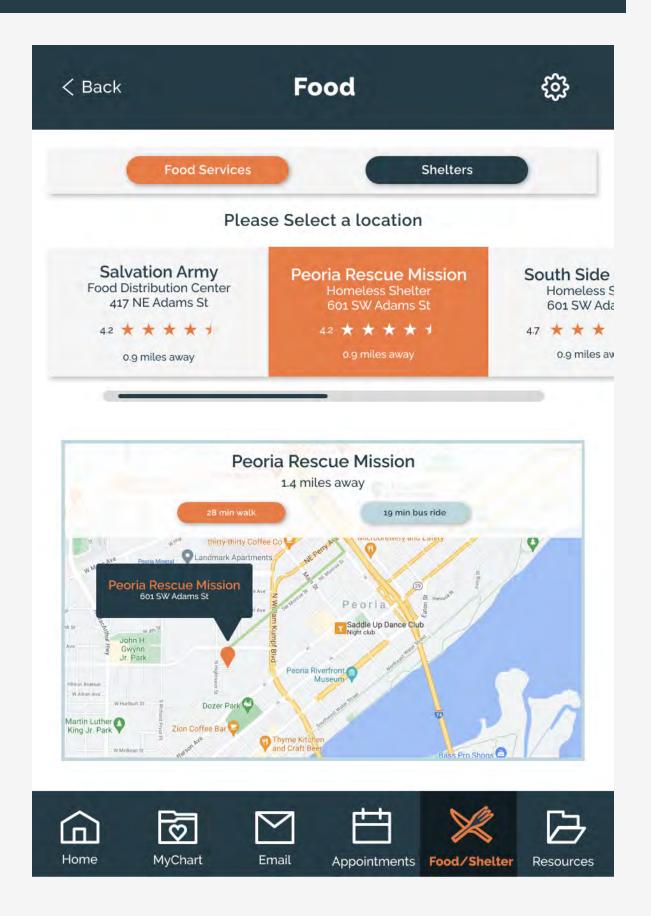


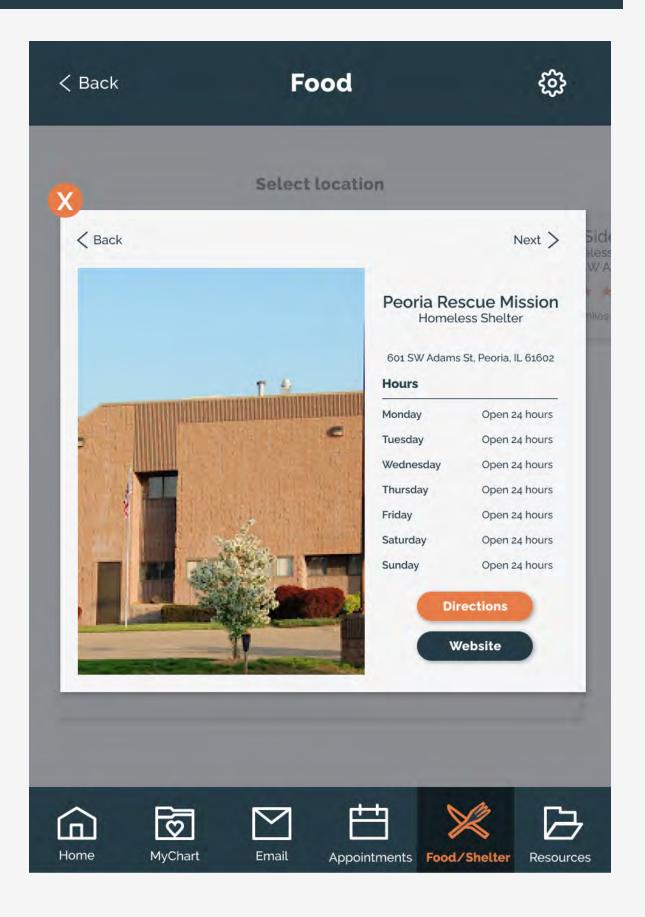


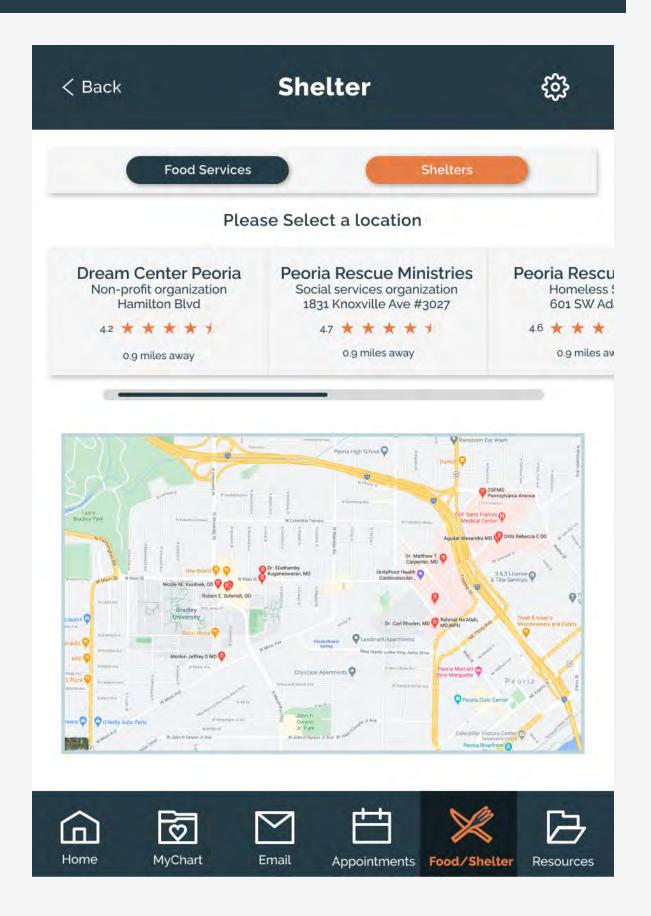


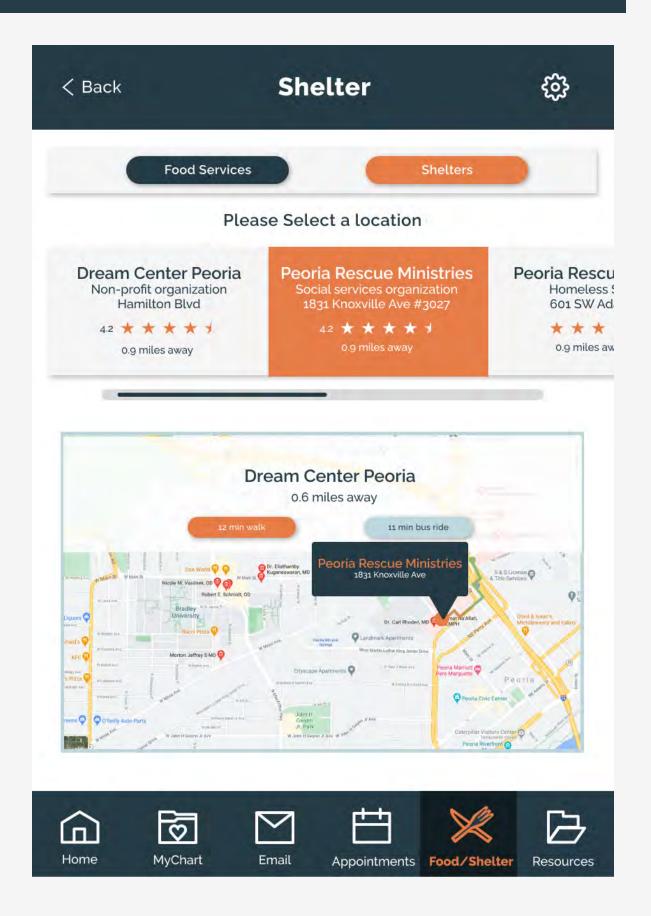


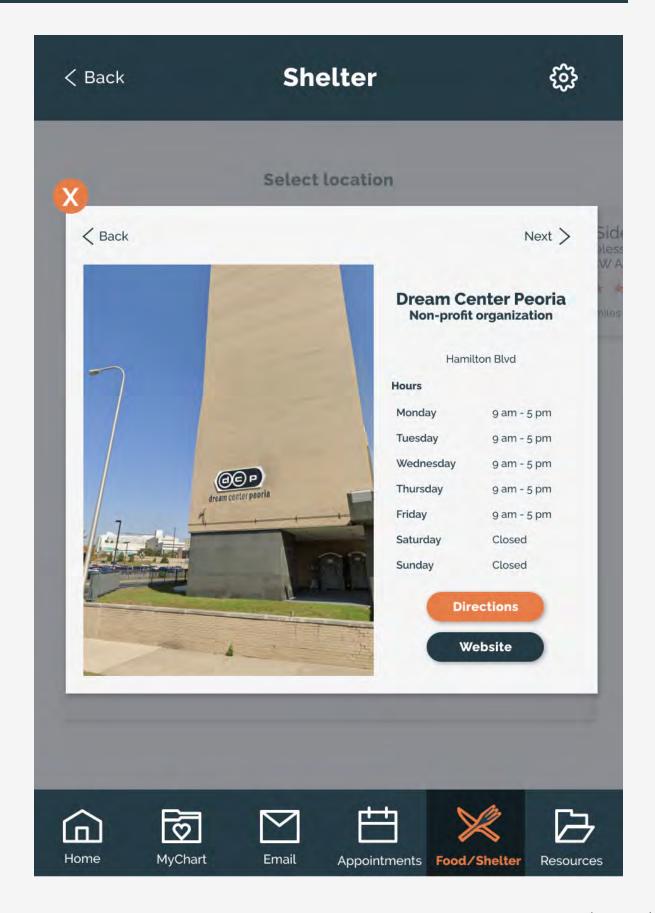






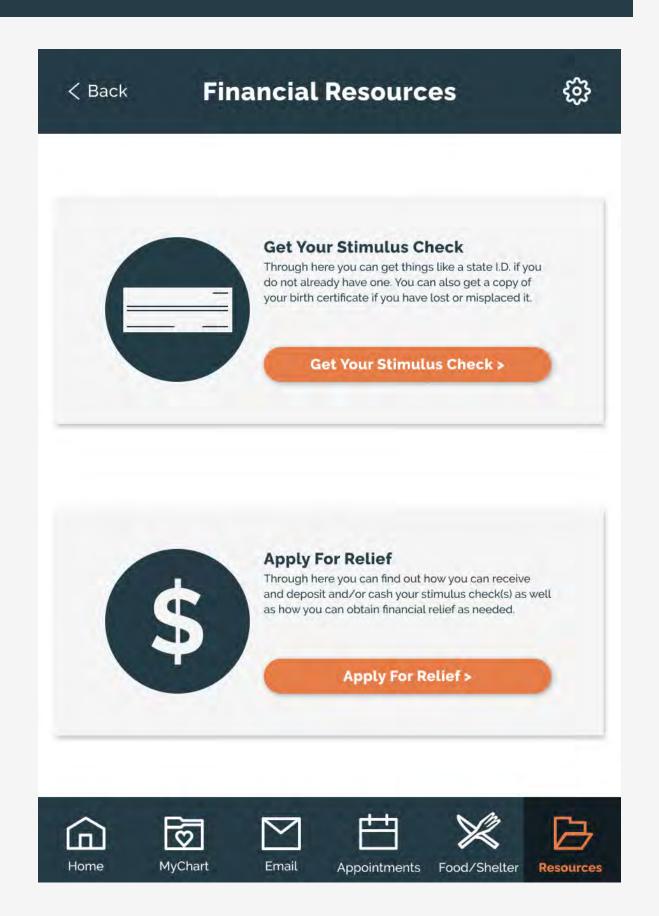


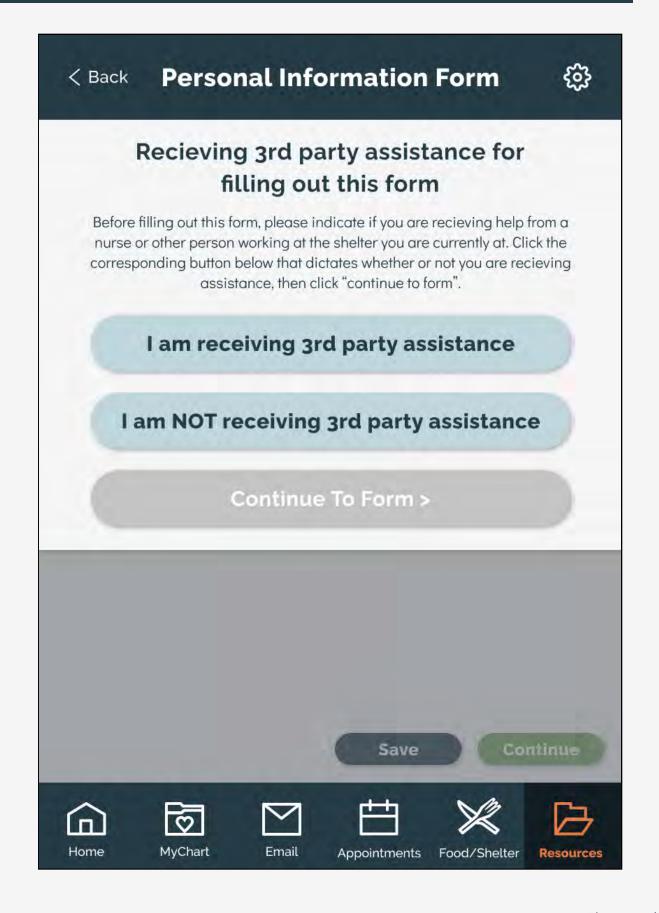












far and contact someone worl	king at the shelter you are at to learn how you can
recieve the remaining information of the rema	ation that you need in order to complete this form. Middle Name
THE NAME	
Last Name*	Date Of Birth (MM/DD/YYYY)*
Social Security Number*	
Last Farm Dialta (VVVV)	
Last Four Digits (XXXX)	
Last Four Digits (XXXX)	
Last / Most Recent	Location Of Permanent Residence
Last / Most Recent	ocation Of Permanent Residence
Last / Most Recent	
Last Four Digits (XXXX) Last / Most Recent Street Address* Apartment / Suite Numbe	
Last / Most Recent Street Address* Apartment / Suite Numbe	
Last / Most Recent	

User Testing Summary

Overall, the user testing went successfully! Both user testers were easily able to navigate and complete our 5 tasks, which associate with functions in the bottom navigation bar. In specific, the task that involved the scheduling an appointment received comments about how user friendly it felt. The account creation for both MyChart and email was received with positive feedback, but the required fields weren't as easily understood as expected. There were a few questions about the MyChart activation code, which should have an explanation page for it. The food and shelter tasks were easily breezed through, without any feedback about the flow. For the public resources, one of the user testers gave lots of feedback about the Personal Information Form. One of the points of feedback was removing the need for the whole Social Security Number when the last 4 digits are plenty. Outside of tasks, the home dashboard was hardly ever used in both user tests. The changes we would like to implement based on these user tests are:

Only ask for the 4 digits of the SSN

Make the asterisks for required fields more noticeable

Ensure all buttons were properly linked

Prototype Link

https://www.figma.com/proto/zjR0782l3oK5dmkY9jAUB5/The-Aces-Document?page-id=364% 3A151&node-id=367%3A170&viewport=311%2C295%2C0.07209302484989166&scaling=scaledown