The Power of Process

Outlining The UX Design Process

About Me



- 2019 University of Cincinnati
 DAAP graduate
- 4th generation designer
- UX/UI Designer for Mile2
- Based in Columbus, OH
- Dog and sushi lover



Intro To Process

Why Is Process Important?

- Prevents instances of bad user
 experience and usability problems
- But more importantly...

 If there's no thought or research behind
 the usability of your design, you increase
 the risk that your product will fail
- No sound organization would want you to take that risk

- Just creating pretty looking products and designs does not cut it!
- Process = proof
- Especially in the digital world where you are competing for peoples time and mindshare

Successful Process Can Help Us To Avoid Designing Like This....











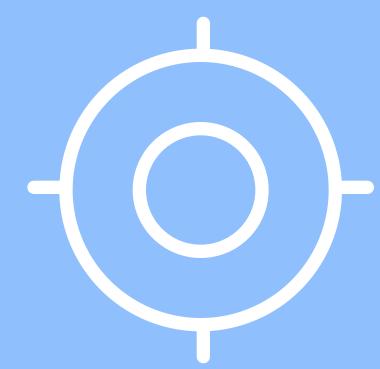


UX Process



Define: Problem Analysis and Early Domain Research

- UX is about solving problems. Take the time to understand what the problem is and who is experiencing this problem.
- It's alright to be novice on your topic/ problem. Use google search to lay the research foundation
- Figure out what what questions you have or what areas of your domain you need to learn more about.

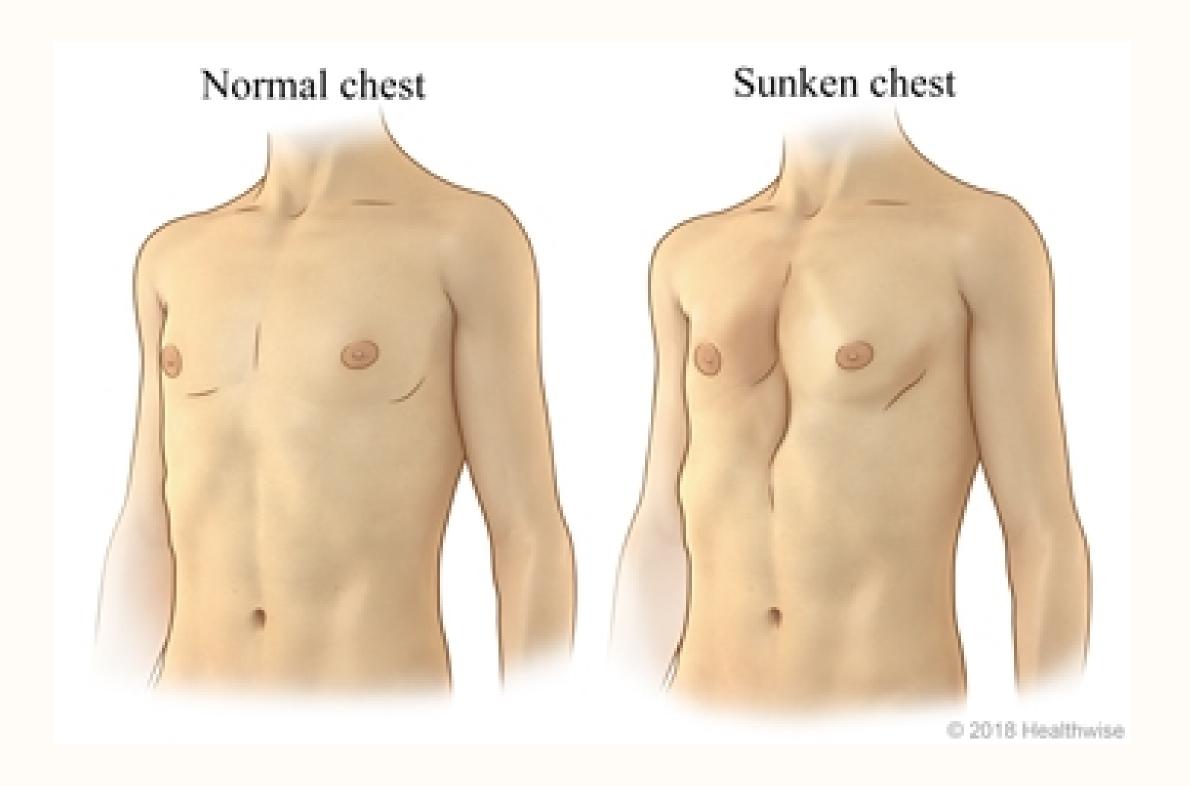


Phase 1 // Case Study

Define: Problem Analysis

Case Study: Pectus Empowerment

- The surgeries for pectus excavatum are the most painful surgeries performed at Cincinnati Children's Hospital. The fear of pain and lack of education on pain management tools can cause patients to feel heightened anxiety about the surgery.
- How can we support pectus patients to feel empowered throughout their surgery journey?



Https://Www.Youtube.Com/Watch? V=E2Xyhhd7Cia&Ab_Channel=Cincinnatichildren%27S

Phase 1 // Case Study

Define: Early Domain Research



Phase 1 // Case Study

Cincinnati Children's Hospital // Chest Wall Center

Case Study: Pectus Empowerment

 Special thank you to <u>Dr. Garcia</u> and his team for the opportunity to use the UX and design thinking process to improve patient experience.



Research

- Research = lifeline of your project
- This is primarily where you gain insight, establish facts, find problems, and <u>empathize</u> with your users perspective.
- Common Research Methods
 - 1:1 Interviewing
 - Ethnographic Observation
 - Card Sorting
 - Surveys



Phase 2 // Case Study

Research

Patients

1. What do you see as the goal of your Pectus surgery? Is there anything specific that you'll be able to do after surgery that you can't now?

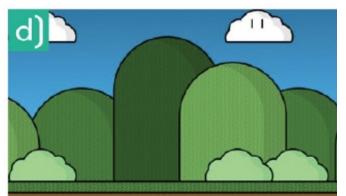
2. What do you enjoy doing in your spare time? Please be as specific as possible.

3. If you had to pick a visual narrative to tell a story, which one would you pick? Of the options below, circle the one you are most drawn to.









Gender:

Age:

Number of siblings:









Analysis

- What were the most important findings?
- How are these findings going to shape your ideation?
- Turn these findings into visual representations (artifacts)
 - Personas
 - Journey Maps
 - Process Maps



Analysis



Name of the last o

CONTRACT CON

SECOND .

USES THE

par myl

Trans.

DERLING.

the pint to the same of the same and to the

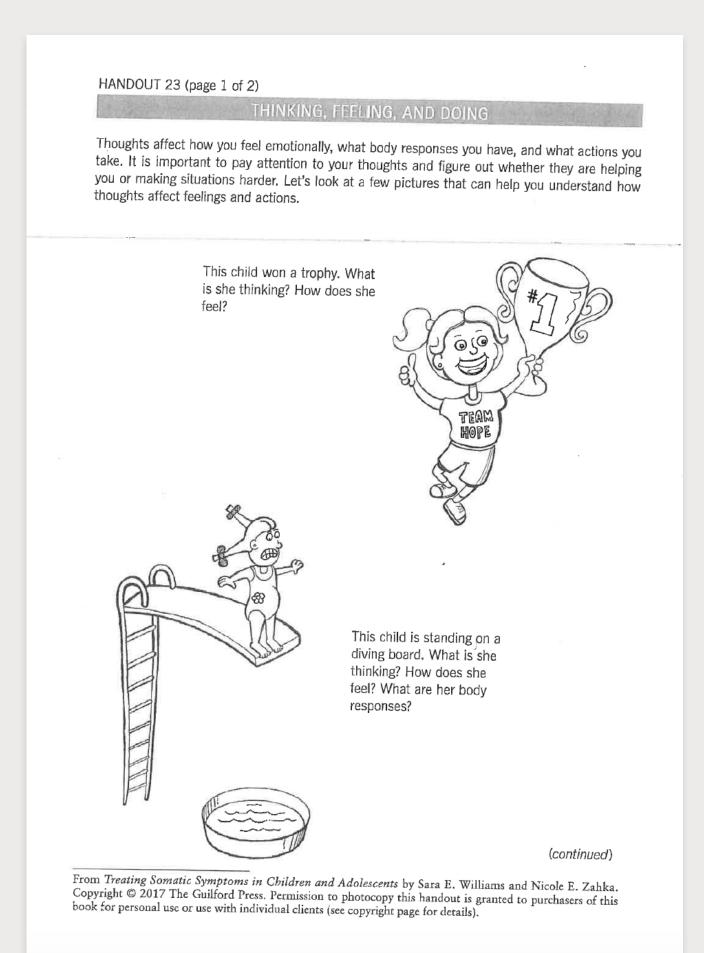
ricking paramp paramp parameter di selection o

Tankson D. (Alexandra Con Alexandra Alexandra Alexandra Alexandra

livewell

Phase 3 // Case Study

Analysis



HANDOUT 15 (page 2 of 2) DISTRACTING AND PLEASANT ACTIVITIES ☐ Dance or imagine myself dancing ☐ Plant a garden ☐ Think about something I did well ☐ Work out to exercise videos ☐ Invite someone to sit and talk ☐ Try karate ☐ Run through the sprinkler ☐ Take a dance class ☐ Take a walk ☐ Play Frisbee ☐ Play on a softball team ☐ Jump rope ☐ Train for a running race ☐ Chew my favorite gum ☐ Be with other people ☐ Clean/organize my room ☐ Think about what makes me special ☐ Use colored pens ☐ Imagine the future □ Paint ☐ Look up new words ☐ Sketch □ Do a jigsaw puzzle ☐ Go for a scenic drive ☐ Go rollerblading ☐ Go to the park ☐ Put on temporary tattoos ☐ Hike/take a nature walk ☐ Take the stairs instead of an elevator ☐ Join a new club ☐ Join a swim team ☐ Invent something ☐ Play an active video game ☐ Take a bubble bath or shower ☐ Keep a gratitude journal □ Volunteer ☐ Light a candle/aromatherapy ☐ Look up tutorials online ☐ Make a homemade gift ☐ Do a word search ☐ Play cards/solitaire ☐ Do a logic puzzle ☐ Try skiing ☐ Create or build something ☐ Spend time with a pet ☐ Make a playlist ☐ Give myself a facial ☐ Pop bubble wrap ☐ Squeeze a stress ball □ Solve a maze ☐ Take a bike ride ☐ Make a video ☐ Swing on a swing ☐ Go to the library ☐ Go mountain biking ☐ Hula hoop ☐ Paddle a canoe or kayak ☐ Send an encouraging e-mail ☐ Row a boat ☐ Learn a new language □ Complete a random act of kindness ☐ Play I Spy □ Cook or bake ☐ Go on a scavenger hunt ☐ Learn a card game □ Be silly ☐ Read/write poetry ☐ Build a blanket fort ☐ Walk around the mall ☐ Climb a tree ☐ Call a relative ☐ Play outside □ Play tennis ☐ Watch cute animal videos ☐ Go swimming ☐ Play a board game ☐ Watch the clouds ☐ Rearrange my room □ Sit in nature ☐ Plan my dream vacation \square Think about happy times with my family ☐ Blow bubbles ☐ Solve a riddle ☐ Build with Legos ☐ Walk around the block Go fishing □ Walk a dog ☐ Video chat with a friend ☐ Play volleyball ☐ Jump on a trampoline ☐ Go sledding ☐ Open a lemonade stand □ Rake the leaves ☐ Add my own idea: _

HANDOUT 17

DIAPHRAGMATIC BREATHING

Under conditions of stress, either physical or emotional, the body takes short breaths through the upper chest. This kind of shallow breathing disrupts the balance of oxygen and carbon dioxide and increases the heart rate, which makes the body feel *more* stressed as part of the fight-or-flight response.

Diaphragmatic breathing, or belly breathing, reduces stress by lowering heart rate and increasing relaxation. This kind of breathing uses the diaphragm muscle, which is a dome-shaped muscle located under the ribs and above the stomach. Instead of moving the chest, diaphragmatic breathing moves the stomach because the lungs are taking in more air. When inhaling, the diaphragm muscle pushes the stomach *out*; when exhaling, the diaphragm moves back to resting position and the stomach goes back *in*. There is little or no upper chest movement. Diaphragmatic breathing is the process of taking deep breaths that provide a good balance of oxygen and carbon dioxide for the body and slow the heart rate, turning on the relaxation response.

GETTING STARTED: FIND YOUR DIAPHRAGM

Place one hand on your stomach at the bottom of your sternum and just above your belly button. Sniff quickly as if you have a runny nose to feel the diaphragm muscle move or jump under your fingers. Keep your hand on your stomach while you slowly breathe in and feel your stomach move out against your hand, then breathe out and feel your stomach moving back in. That is what breathing through your diaphragm feels like!

- Inhaling makes the diaphragm push down to inflate the lungs and the stomach moves out.
- Exhaling makes the diaphragm go back up to a resting position and the stomach moves in.

DIAPHRAGMATIC BREATHING TECHNIQUE

- Lie down or sit comfortably in a chair. When practicing this breathing technique, keep your upper chest and neck muscles as loose and relaxed as possible.
- Place one hand on your upper chest by your collarbone, and the other just below your rib
 cage at the bottom of your sternum. This will allow you to feel your diaphragm move as you
 breathe and make sure that your upper chest stays still. You can also try putting something
 light, like a stuffed animal, on your stomach as a visual reminder.
- Breathe in slowly through your nose so that your stomach moves out against your hand. The hand on your chest should remain as still as possible.
- Slowly breathe out, letting your stomach fall back in as you exhale through your mouth. Keep the hand on your upper chest as still as possible.

KEEP PRACTICING!

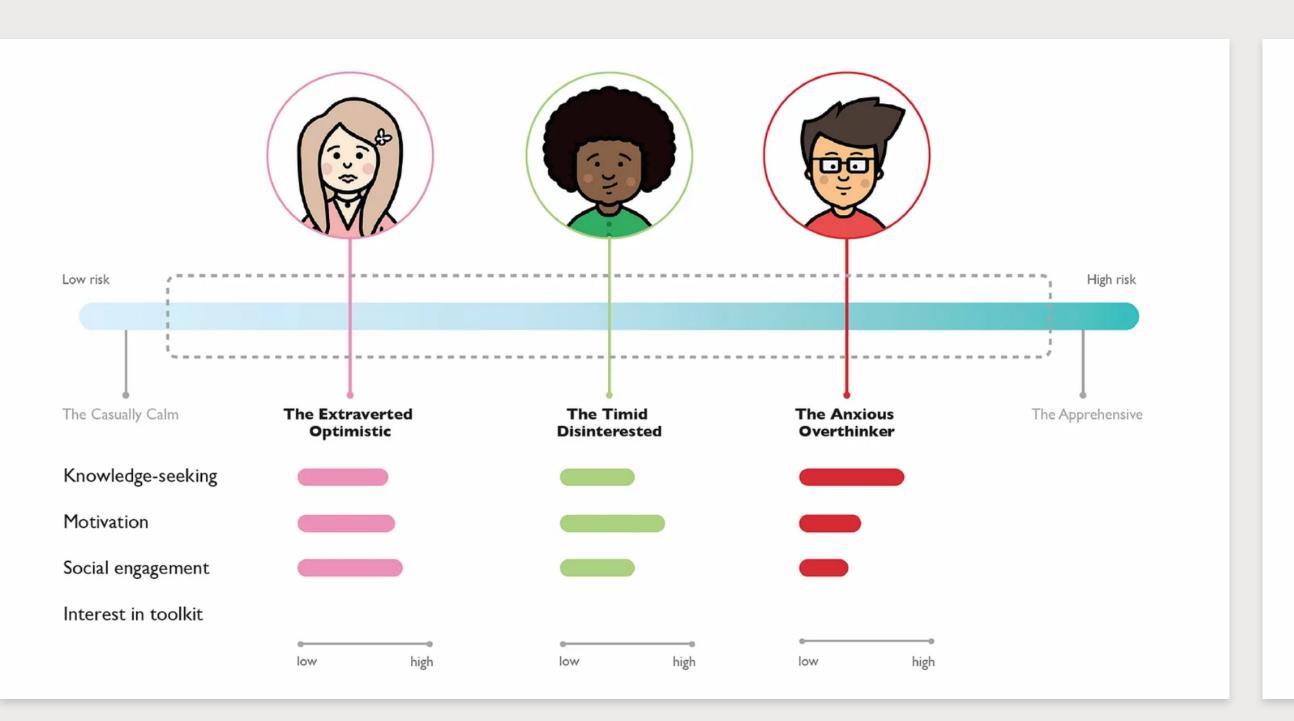
Breathe in a cycle; the ideal time for a relaxed breath in and out is 10 seconds altogether—5 seconds in and 5 seconds out—for a total of six breaths per minute. Breathe in slowly and comfortably until your lungs feel like they are full but not bursting, then just hold your breath until it has been 5 seconds, then slowly let your air out and just pause until it has been 5 seconds before you slowly inhale again. Practicing this breathing technique for 10 minutes twice a day will strengthen the diaphragm muscle, train your relaxation response to turn on, and leave you with a nice relaxed feeling. Remember, you have to breathe anyway, so you can practice this strategy anytime, anywhere!

From Treating Somatic Symptoms in Children and Adolescents by Sara E. Williams and Nicole E. Zahka. Copyright © 2017 The Guilford Press. Permission to photocopy this handout is granted to purchasers of this book for personal use or use with individual clients (see copyright page for details).



Phase 3 // Case Study

Analysis: Personas





The Extraverted **Optimist**

Expressive and positive. However, she gets anxious as the surgery date approaches. She enjoys connecting with former patients and asking the doctors questions.



The Timid Disinterested

Nonchalant and very calm. He is not really interested in learning all the details about pectus; he just wants to get over with it. Although he might get anxious, he rarely expresses it outloud.



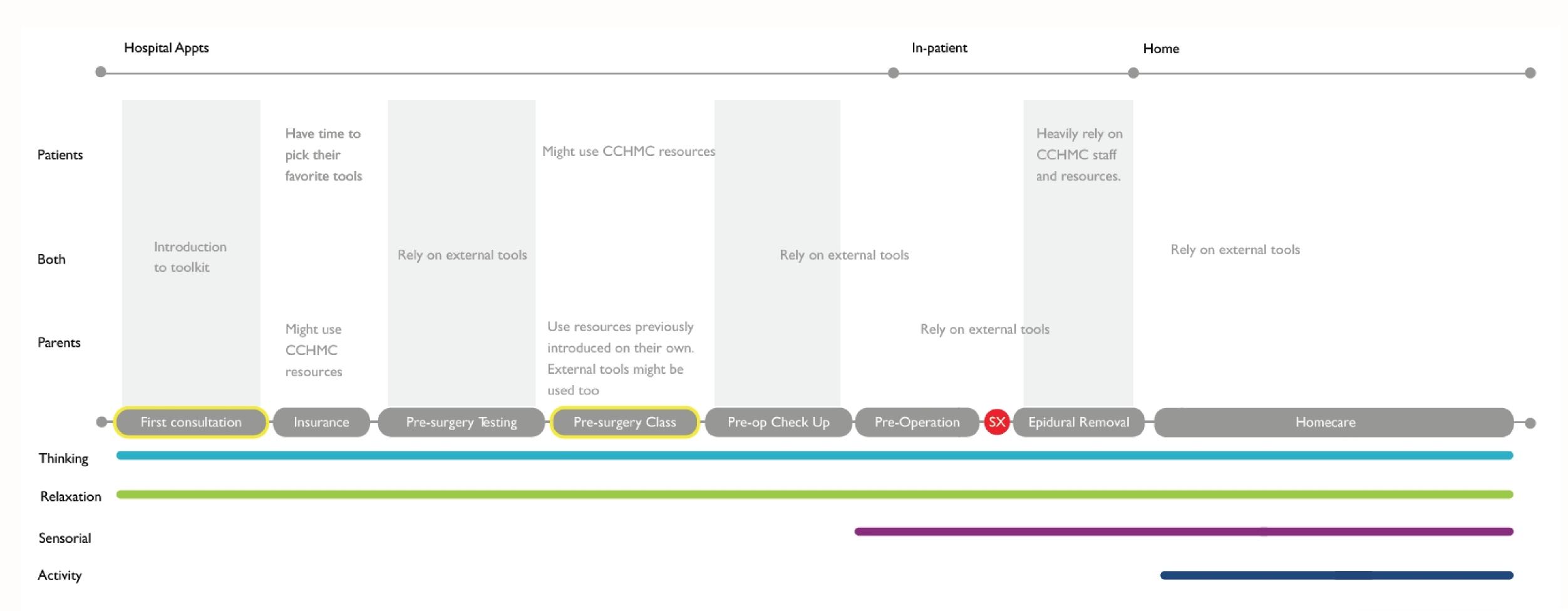
The Anxious **Overthinker**

Seriously concerned. The pectus procedure is something that keeps him up at night. He has done extensive research on the topic and often the clinicians 'what if' questions.



Phase 3 // Case Study

Analysis: Journey Map



Ideation & Prototyping

- Generate multiple concepts then compare and contrast
- Share your ideas and get perspective
- Test and verify
- Stay low fidelity with prototypes
- This is not the time to be concerned with visual design!



Ideation & Prototyping

Relaxation **Activity Thinking** Sensorial CranioSacral Passive Muscle Scheduling **ASMR Goal Setting Guided Imagery** Exercise Relaxation Therapy **Active Muscle** Music Aromatherapy **Problem Solving** Distraction Relaxation 0 0 Reframing Healing Touch Breathing Massage Pacing Thoughts \sim

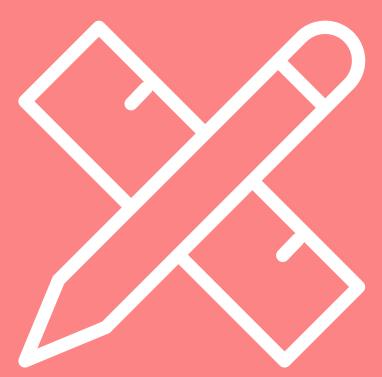
Phase 4 // Case Study

Ideation & Prototyping



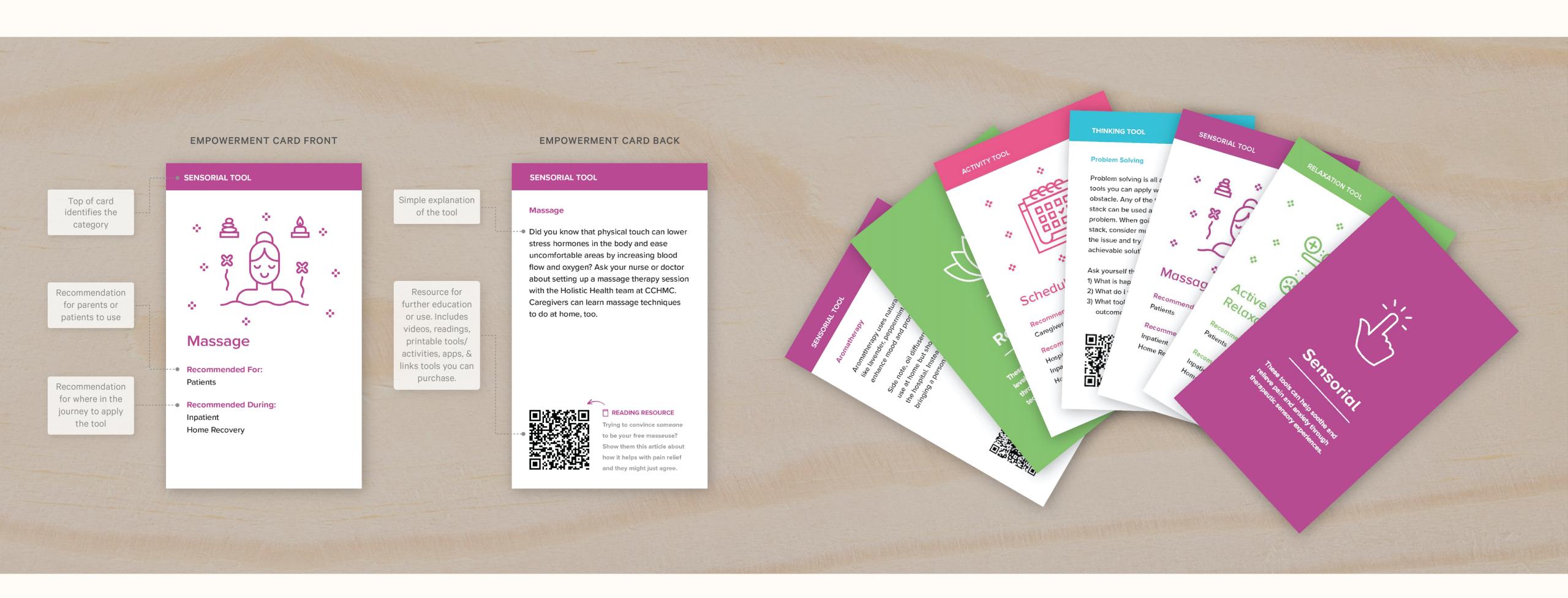
Refine

- Now you can begin to focus on refining your visual design
- Be willing to analyze every detail...the devil is in the details
- This is the difference between okay and fantastic design



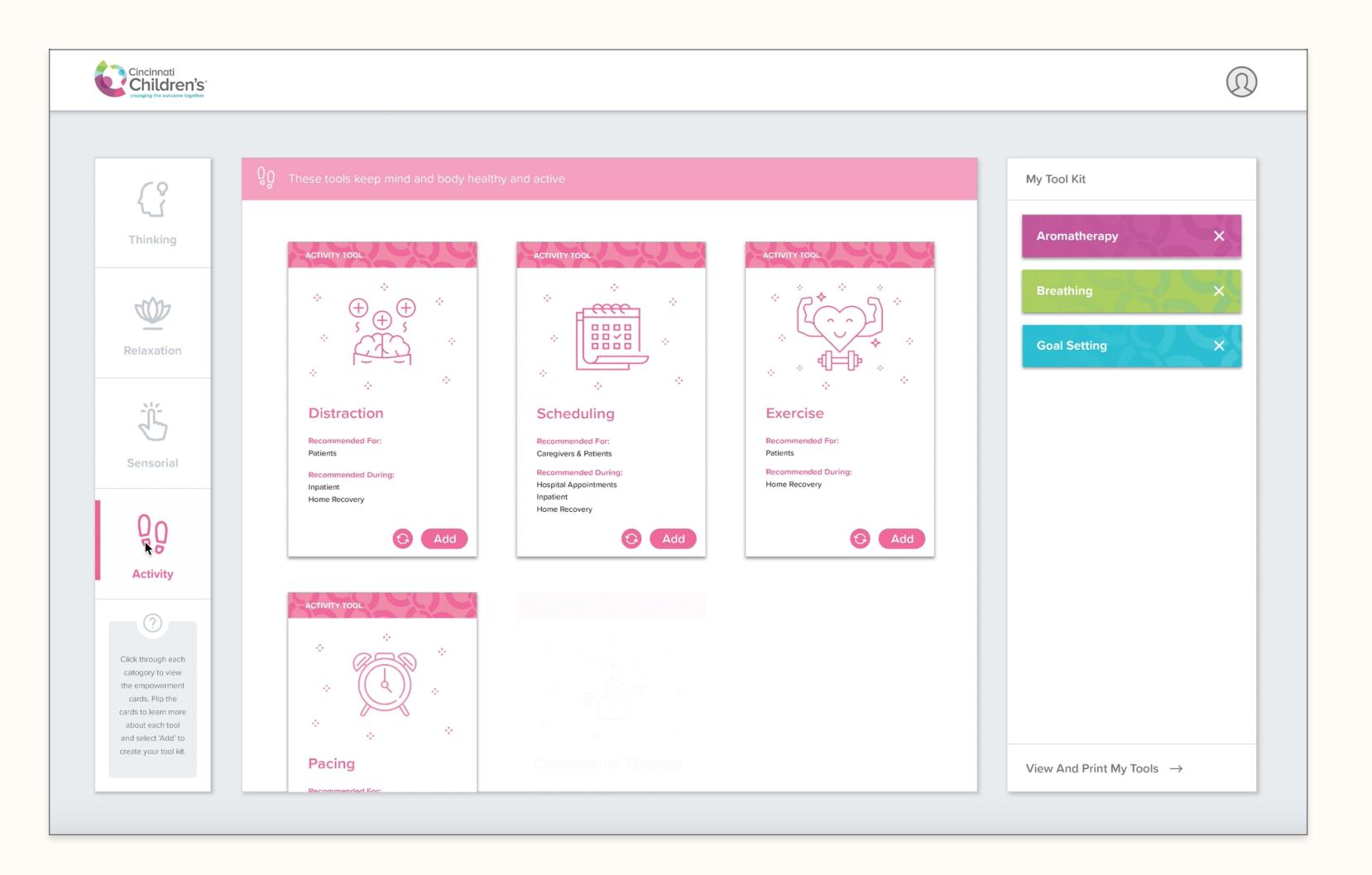
Phase 5 // Case Study

Refine: Deliverable 1



Phase 5 // Case Study

Refine: Deliverable 2



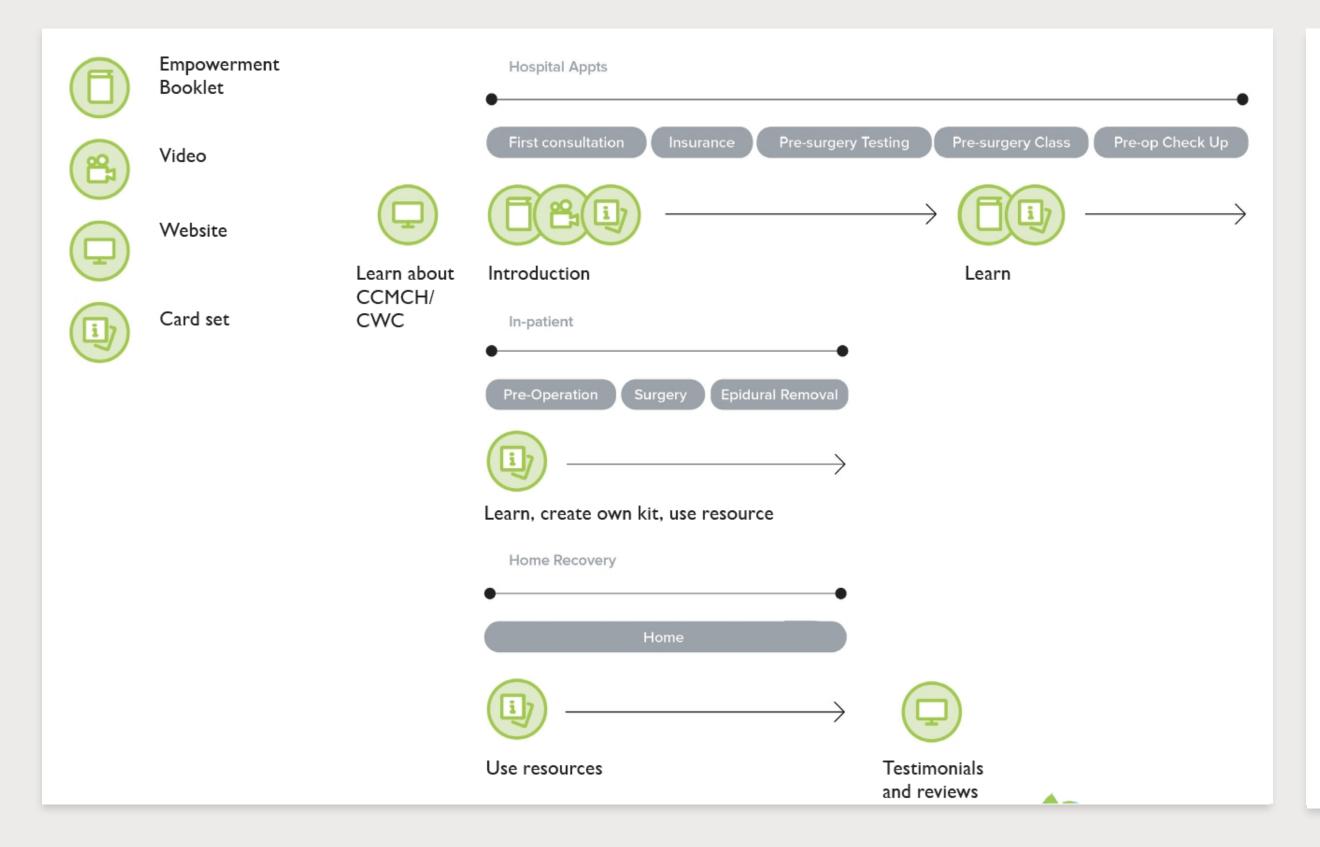
Implement

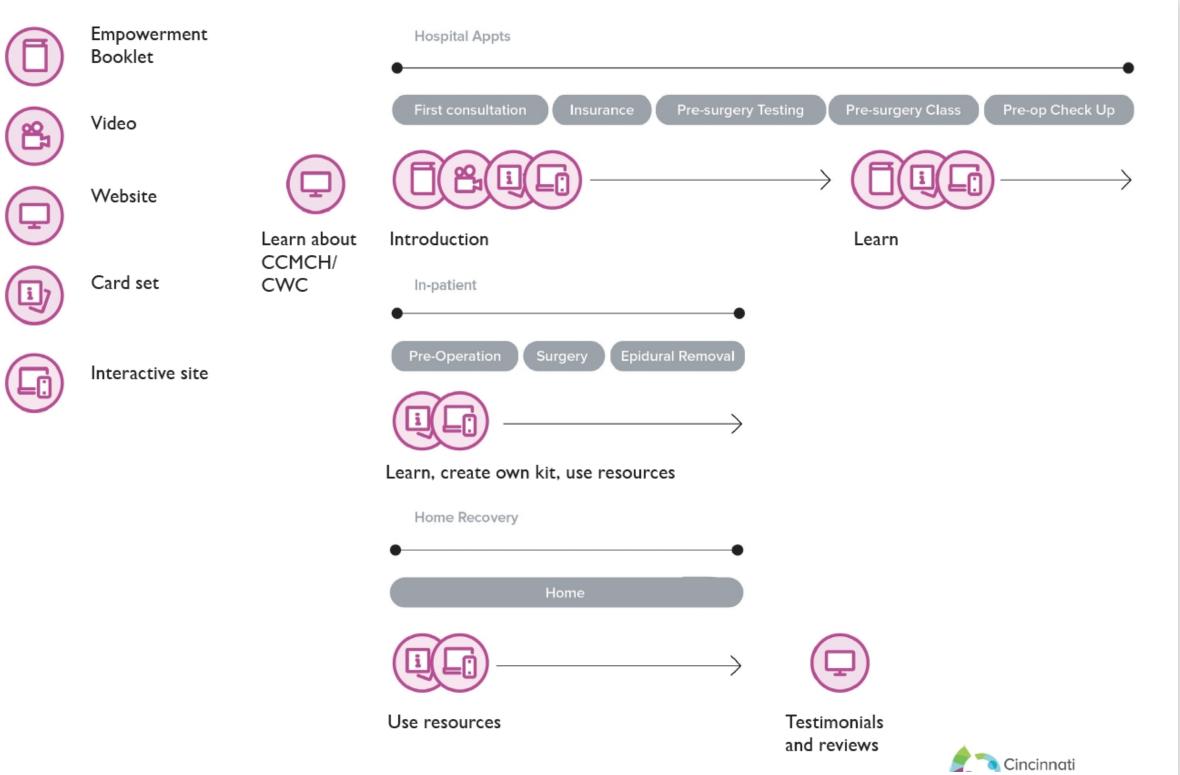
- Develop documents and assets detailing how to design is meant to be built and to look
- Track and measure success
- Get customer validation
- And if needed...keep iterating!



Phase 6 // Case Study

Implement







Evaluate & Reflect

Consider your process and ask yourself...

- What parts of the process were successful? And why?
- Where did you struggle? And why?
- How are users responding to the products? Did it solve their issues and pain points? Can it be improved?
- What lessons can you take away from this to improve on your process?



Thank You

Find Me On LinkedIn!



https://www.linkedin.com/in/ariel-swift/