DESIGN THINKING FOR HEALTH CARE

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GUILT

Repetition

team on the

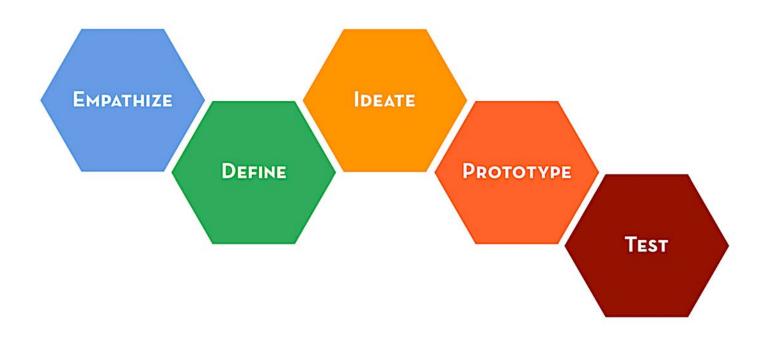
INFORMATION

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Design Thinking: An Overview

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Human Centered Design Paradigm



Human Centered Design Paradigm





A designer 'needfinds' or works to understand a user's experience by learning about their lives. Empathy gaining and needfinding may be broken down into three discrete methods:

Immerse (environment)

Engage (interview)

Observe (shadow/watch)









Ned statement:

USER needs X because Y ~ emotional In their own words: New mothers

Words

I wish I knew that I should have done something before hund to make lotestfeeding easier. It really hurt when my nippletip bled." Johanna M.

= I almost threwup while in labor because I just cite a hamburger right before which is probably notivecommended. But heep, having a baby is likerunning a marathon. Gotta treat yourself abit."

Olivia's mom

Feelings

. Regret at being unprepared

- · Frustration when she had troubles feedingher baby. -> worried about malnourishment.
- · Inconvenience, annoyano of the temporary pain.
- · justificel for being indulgent, afterall, 9 months of abstinence Fromjunk food is a long time.
- · Grossed out from the hospital food that she telt compelled to have his husband drive out to buy a burger.

Feelings

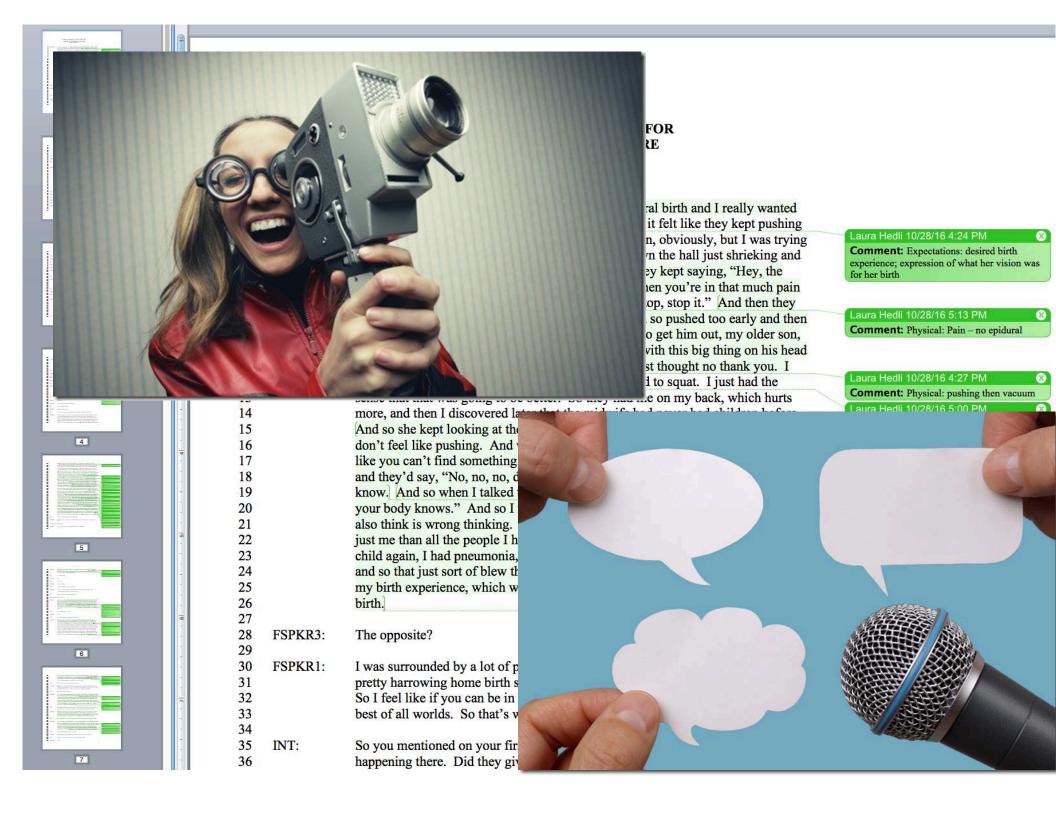
Words : Thure's a photo of me in my mother-in-law's toyer of show casing my huge, braless books while I'm hanging on to my newborn to dearlife. Yes, I know it's about the baby, butwhen thurisa photo involved, it's about me too."

Motheron thatin catemom blog

If your real doctor is cosnit deliveryou, you sort of don't care anymore you just want the baby out & whoeverisgoingto make that happen, your partner, a nurse, or even a + chingianitor-seems perfectly time."

- · disappointed about her sudden intrusion of privacy
- · Self-conscious about huimage on camera & preferred that her family members acted with more sensibility.
- · feels grossed out about howshelooksrightafter birth.
 - · When she is in pain (blesheis pushing ahuman being out of her body. she gets urgent and irrational. anythinggoes as long as ends the process.
 - · indifference toward OB credentials in the critical moment.
 - annoyance with anyone/ anything that could make her situation more difficult.







The goal of the empathy mode is to discover gaps in between what people do and what people say they do. These gaps are the design opportunities.

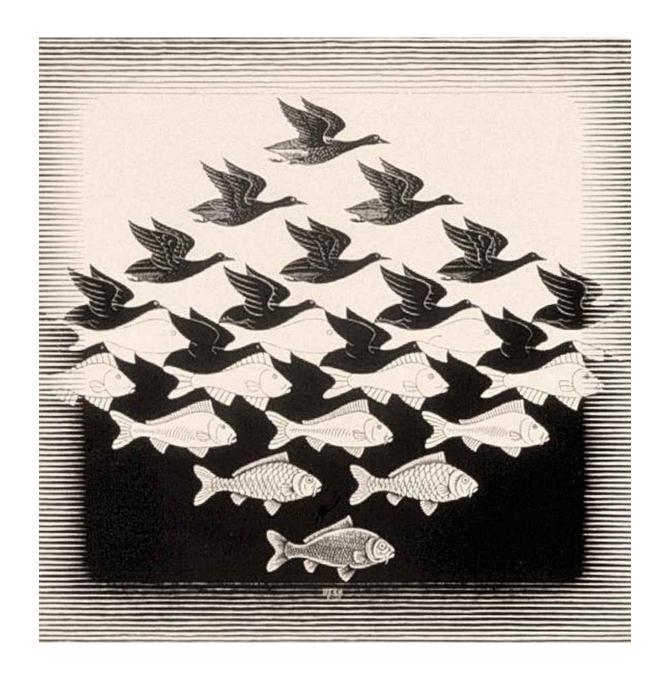
Insight:

The capacity to gain an accurate and deep understanding of a person or thing.

The leap from observation to insight requires inference.

Look for tensions, contradictions and surprises. "I wonder if this means..."

A metamorphosis of your understanding.





What is a need?

- A physical, psychological or cultural requirement of an individual or group that is missing or not met through existing solutions.
- •Users typically cannot articulate what's missing.
- Our process is as much like detective work as research.
- -looks broad and deep
- -infers models to explain
- -identifies gaps and inconsistencies



Embrace® Case Study

"Each year, 15,000,000 babies are born preterm; 3,000,000 babies die in the first 28 days of their life. This is largely due to poor healthcare available in developing countries. Many of these deaths are preventable. Unfortunately, a prevalent number of hospitals simply cannot afford the high cost of current incubators and are in dire need of a low cost alternative. In addition, many of these births occur in rural areas, where electricity may not even be an option so a sustainable solution is needed."





USE: Keeping baby warm after birth while realistically considering the time a mother has and cultural norms.



USABILITY: Mom has

limited time because she has to get right back to work after birth, and she feels uncomfortable being exposed around family and co-workers making it difficult to breastfeed and have skin-to-skin time with her baby.



MEANING:

Problem 1) Mom has limited time because she has to get right back to work after birth.

Meaning: The needs of new mothers and babies may not be understood and/or prioritized due to the culture.

Problem 2) Mom feels uncomfortable being exposed around family and co-workers making it difficult to breastfeed and have skin-to-skin time with her baby.

Meaning: Modesty is prioritized (no matter what) due to social norms.

SOLUTION:



SOLUTION:



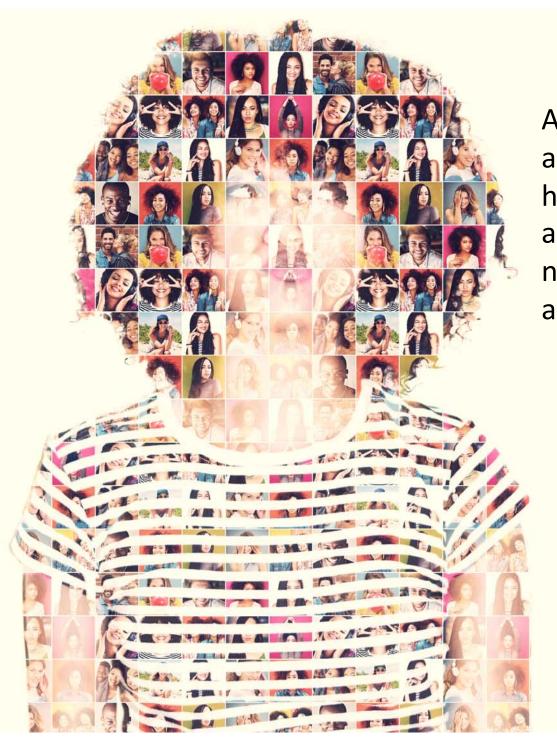




What is an interview?



- Semi-structured
- A field guide is developed and used, but interviews are flexible and feel like conversations.
- Respondents should do 80-90% of the talking.
- Encourage storytelling, get failure and success stories.
- Ask simple or naïve questions that often start with "what, how, who, or why?" or "tell us about..."



A persona is a user archtype you can use to help guide decisions about product features, navigation, interactions and visual design.

Personas are Beneficial For

- Defining a specific user's goals and needs
- Giving design teams a focus with a common understanding
- Identifying opportunities and product gaps to drive strategy
- Concentrating on designing for a manageable target who represents a larger group
- Helping designers empathize with users to understand behaviors, motivations and expectations



Typical Day:

Danika wakes at 6am, walks to the train .25 miles from her home, walks to her office across the street and begins work at 8am. She sits most of the day, getting up from her chair only to file papers. Food is ordered into the office. She typically eats tacos or burgers for lunch with soda. She leaves work at 5:30pm, grabs a sub sandwich or "Panda" Chinese food and rushes to get to school by 6:30pm. She stays at school for classes until 9:00pm and takes the train home. At home she has snacks like pretzels, chips or yogurt covered raisins, watches her favorite shows and then goes to bed around at 11:30pm.

Name: Danika

Age: 36

Occupation: Paralegal and law student.

Pregnancy History: Pregnant once before, ended in pre-term birth at 22 weeks, baby did not survive.

Health Insurance: Medicaid (through PPACA or "Obamacare").

Lifestyle: Works full time, law school part time at night and weekends.

Diet: Mostly fast food, and packaged food.

Exercise: Walks from home to train station 5 days a week (.5 mile total distance).

Habits: Alcohol consumption every weekend, drinks soda and coffee daily.

Psychological Profile: Has struggled with anxiety on and off during her life. After the death of her baby, she did not receive any therapy and did not seek therapy. Peer support wasn't offered at the hospital.

Home Relationships: Lives with partner who shares similar lifestyle traits, and his mother.

Social Life: Has a few close friends and her sister who she regularly sees on weekends.

Personal Goals: Trying to get pregnant with a healthy full-term baby again ever since the death of her first child 11 months ago.

Professional Goals: Wants to become a family attorney within 4 years.

Based on the above persona, Danika may need (inferring here):

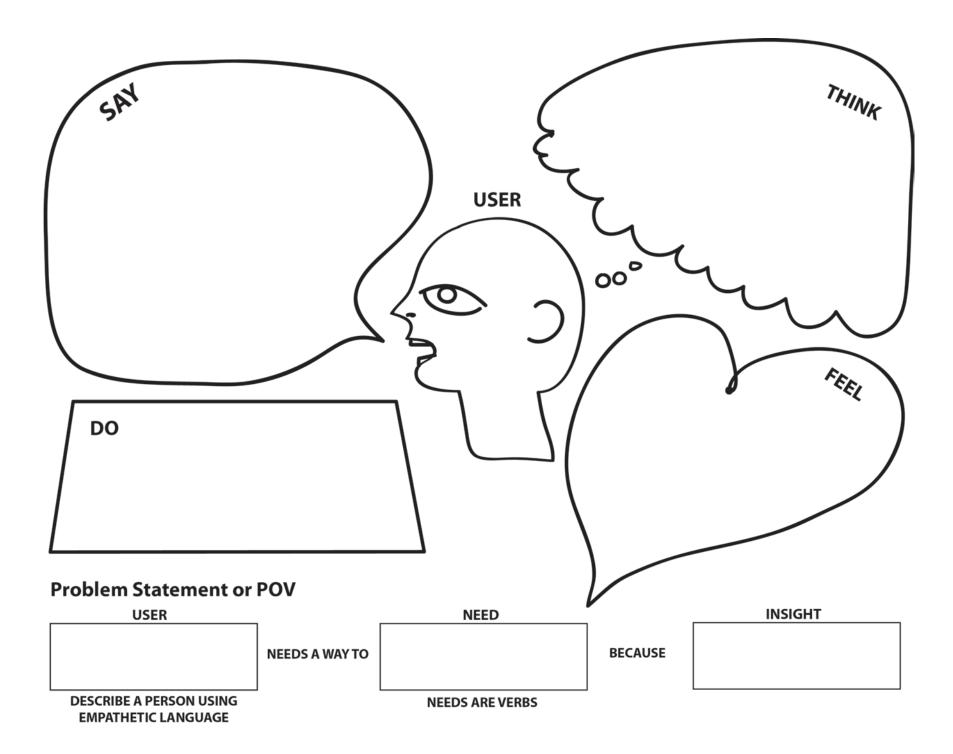
- 1) Information about becoming pregnant after the loss of a pre-term infant.
- 2) Support post discharge from clinicians and peers about what she experienced in the NICU.

What else could you infer Danika might need to reach her healthy pregnancy goal?

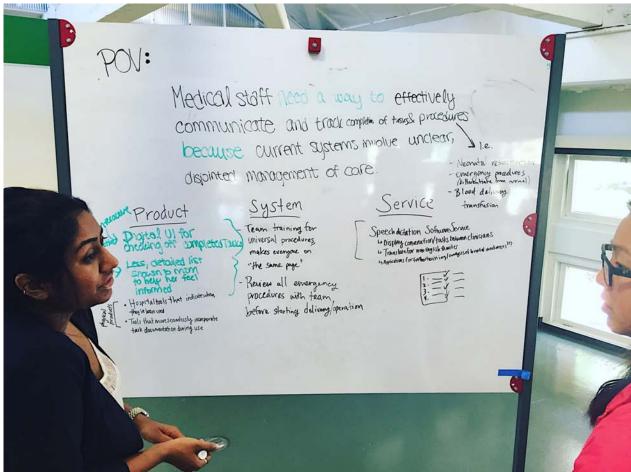












Create a "How Might We"...statement.

How might we help Danika to do X in order for Y to happen...

*Your How Might We should generate a number of possible answers and will become a launch-pad for your brainstorms. "How Might We..." should give you both a narrow enough frame to let you know where to start your brainstorm, but also enough breadth to give you room to explore wild ideas.

