Nurture: reimagining the childcare experience

Assignment 2: Needfinding, POV + HMW, Solutions, Experience Prototypes

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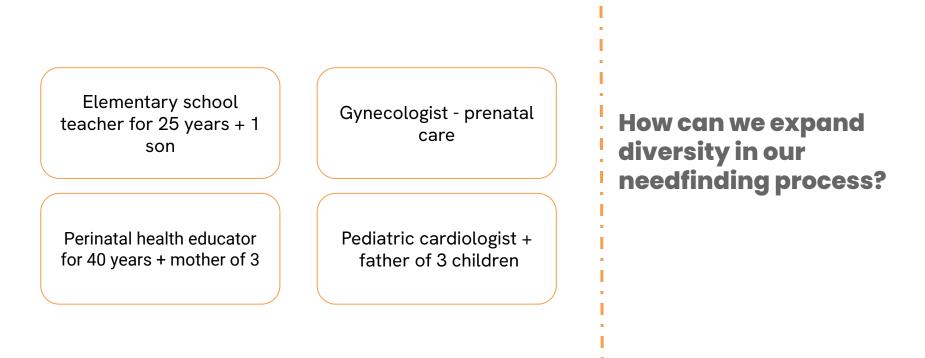
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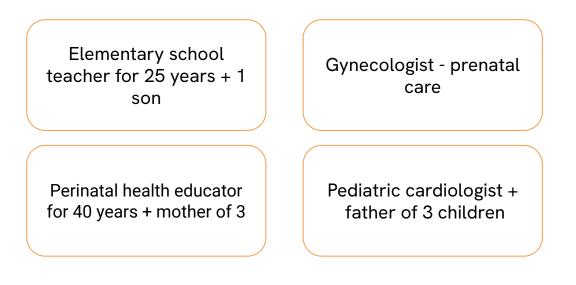


01 Interviews (Contd.)

Recap...



Recap...



How can we expand diversity in our needfinding process?

Non-medical professionals

More recent mothers

Atypical child raising experience



Initial Problem Domain:

Streamlining the childcare process for all caregivers (teachers, doctors, parents, therapists, etc)

We narrowed it down to...

Parents



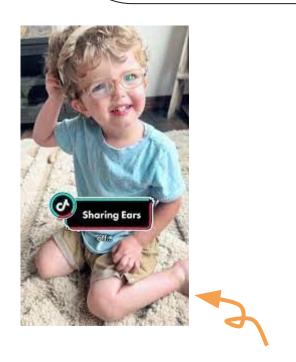








Brandon - changed jobs to be closer to home + support parenting



Cooper - sensorineural hearing loss in both ears, knows ASL, preschool 3x a week + deaf/HoH classes 2x a week



Advice from Online peers Sharing to process State support experience Sharing her parenting Found value in Finding parents Minnesota journey on people who on Facebook preschool provides social media blogged from deaf/HoH classes raising deaf was originally + learning emotional children was just a way to technology perspectives game changing process emotions

66

Books are not enough, literal human beings are most important 66

accept things will be messy and unexpected...go with the flow

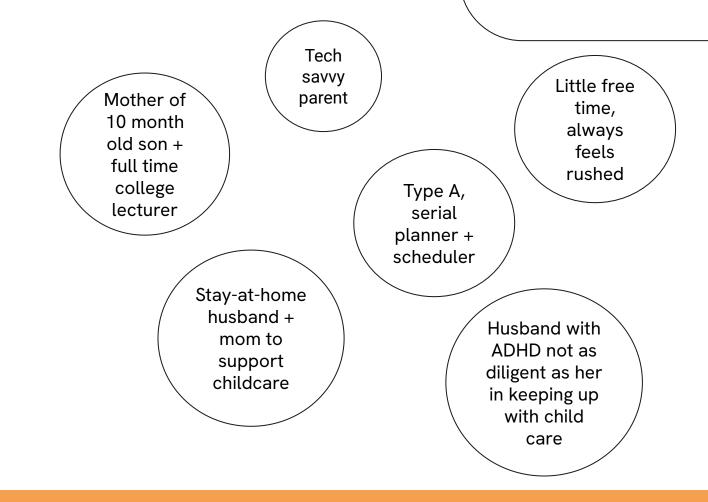
not everyone has the personality to share and work through things on their own

"I thought my story was niche... didn't think others would care" 66

"Knowing I've helped other parents makes all the online negativity worth it"



"Jessica"





Trust Issues

Communication

Conflicting care

Digital tools

So many conflicting opinions on "best" solution to same problem

Can be hard to get mom and husband to follow her notes and plans when she's at work having multiple caregivers makes it harder to solidify constant habits Huckleberry has helped manage sleep, medications, and food for her baby 66

"But Huckleberry has everybody's data...when good feedings are, when are they sleeping. Not just a random blog" 66

I created elaborate documents to be like, here is the exact routine every single day, and they like never read it

> Sleep training - that term encompasses like a million different ways... letting your

baby cry for stretches of time,

or it could mean like, rock your

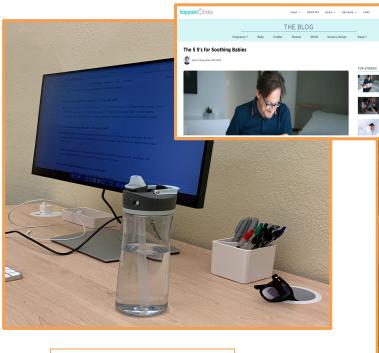
baby for slightly less time

which are radically different.

66

I'm trying to like be more calm and rational about it. And less catastrophizing about like if they do something wrong or deviate from the schedule

Or they also will do things to get him to fall asleep that like create bad habits that I spent months trying to fix



Huckleberry app



"5 Ss" blog for calming baby down



Sleep tracker

Home page



POV + HMW

Beth POV

We met...

Beth, who is a **mother of a deaf toddler** she had unexpectedly right after marriage and now raises him on a farm in Minnesota

We were surprised to notice...

That she said the best thing she did for her mental health was to **hire someone to clean her house** every week (something like this was a small thing that did not come up in our personal thinking about new family's needs)

We wonder if this means...

That childcare is about more than simply the parent-child relationship and there are various kinds of **care that can be outsourced** to a 3rd party

It would be game-changing to...

Find a small mechanical task involved in child rearing that can be outsourced to **make more time** for parental well being and familial bonding





We met...

"Jessica", a college lecturer who has a 10 month old son that is **collectively cared for** by her, her husband, and her mother

We were surprised to notice...

that even though she creates detailed schedules and shares an app specific for managing baby care with her mom and husband for task tracking when she is not home, **they often didn't follow the plans she wanted**, resulting in different types and levels of care for her child.

We wonder if this means...

It can be challenging for different people to take care of the same child and provide consistent care and that **too many sources of information can be overwhelming**.

It would be game-changing to...

Help individuals caring for the same child to learn how to be on the **same page with their care plans**.

HOW MIGHT WE



JESSICA

Top HMWs

Inspired by Jessica's POV

how might we make it easier for working parents to communicate on household/childcare tasks HMW have parents challenge each other to be the better parent

how might we make a digital "bag to scream into"

Top 3 Solutions

Create a gamified goal tracker that provides optimized advice! a way for parents to engage in teambuilding exercises with each other to develop shared goals Community driven venting space for parents having a hard time that provides meaningful resources for coping!

04 Experience Prototypes

Solution 1:

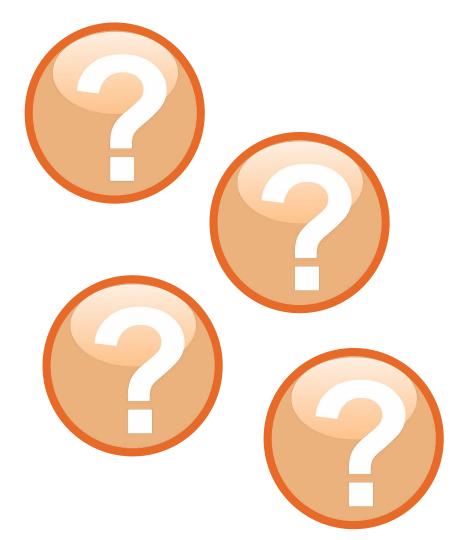
A gamified goal tracker that provides optimized advice

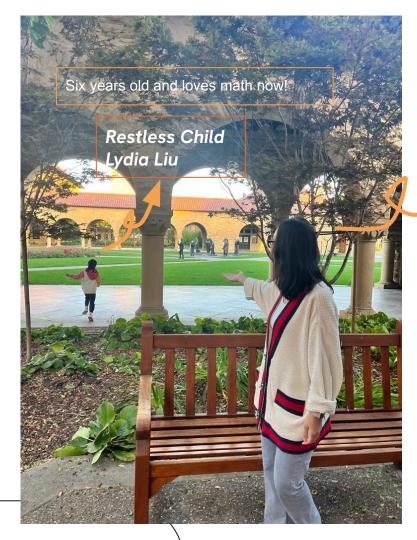
Assumption:

Parents need help gamifying individual parenting tasks

Prototype 1 Setup: Gamifying Parenting







Our Kind Prototype Testers

Kathy Liu

Mommy

From Canada 👾

Approached in Main Quad

"If she doesn't like a food, we have to make a game to let her finish"

"Math was very boring, but by turning it into a game she's come to enjoy it!"

> "I don't have any games for helping her with french because I don't speak it"

Not pictured: Mommy's BFF Jenny Huang

"Try and come up with a gamified version of a task to make it easier for you to complete it"

"I can't really think of anything off the top of my head" - Kathy

"Maybe you can draw a house and use that to practice counting sofas and chairs" - Kathy

"Mommy can you draw a house with me?" - Lydia



Parents and children alike struggle to imagine gamification of NEW tasks

Physical Prototype

Control Example







Imaginative Ideas





Final Thoughts and Insights

"But if we have this kind of technology that can help us it would be better! Not just for the child but for the parents too"

"It's my first time being a parent, so a lot of the time we are struggling, we don't know what to teach"

"I always do a search online or ask my friends"

"Oh that's creative!"

Parents lack awareness of how to gamify certain tasks

Parents ARE searching for answers, but don't know what works for their child Decreasing the cognitive stress of seeking better ways to gamify tasks empowers both parent and child

Going Forward with insights...

Children have more energy and imagination than their moms. How can we harness this to gamify tasks? Mom's friend was actively helping during sketchnote time when mom froze up. How can we replicate such collaboration?

When asked to interview parents, mom stayed while dad went ahead. Why was this? Did father not believe he was equipped?

Solution 2:

A way for parents to engage in team-building exercises with each other to develop shared goals

Assumption:

Parents struggle to work together and will want to engage in guided collaboration tasks

Prototype 2: a parent team-building exercise

A Draft saved

WWYD: a childcare scenario game

Estimated time: 15-20 minutes. Directions: fill out the form separately from your partner or alternate caregiver. After answering each scenario, share your responses out loud and identify similarities/differences.

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Not shared

* Indicates required question

Scenario 1 (Sleep Regression): Your previously good sleeper starts experiencing * sleep regressions and wakes up multiple times during the night. How do you help them get back to a regular sleep pattern?

How similar were your answers? *								
	1	2	3	4 🕲	5			
Completely opposite	0	0	۲	0	0	Identical		

What parts of your answers were similar? What parts were different? *

Scenario 1: Sleep regression issue

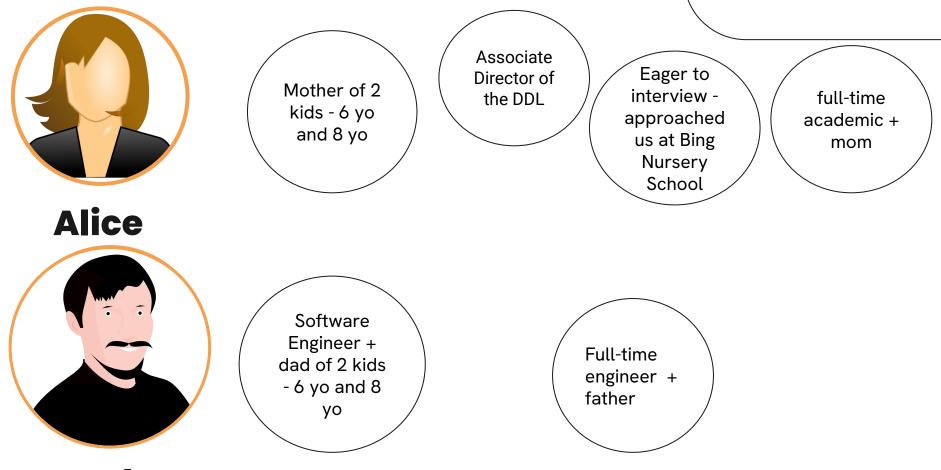
Scenario 2: Solo parenting

Discovery questions

Do parents generally agree with each other on the same issues?

Does sharing opinions on childcare help parents bond?

Could openly discussing opinions help parents be on the same page?



Fred

Gave prototype forms to a couple to fill out at home

Prototype 2: Results

Parents generally agreed on solutions to scenarios Instructions for the prototype were not fully followed: results not fully reliable Couple were not very recent parents so scenarios were not "hypothetical" Forcing new parents to ask such questions to each other can help conflicts later on

Going Forward...

difference between take-home questionnaires vs. in person

Good UI required for user participation Parental collaboration helpful but hard to facilitate **Solution 3:**

Community-driven venting space for parents that provides meaningful resources for coping

Assumption:

Parents feel more qualified to receive advice than to give it (self-conscious about parenting skills)

Prototype 3: Advice Confidence

Scenario 1: teacher ignoring child

Posted by u/Mandapandaroo 1 day ago

66 Issue with my child's teacher

Child 4-9 Years

My daughter is in the first grade. Everyday I pick her up from school. When the kids come out of the school they are in a line and they are supposed to raise their hand when they see their parent or whoever is picking them up. The teacher picks each kid with their hand raised one at a time to be excused. Everyday I'm there early so my daughter is one of the first couple kids with their hand raised. I watch the teacher everyday avoid choosing my daughter. Sometimes until half the class or more (15+) has been excused. At first my daughter was crowding up to the teacher (as were many other kids) and I thought that was possibly the reason. So I talked to my daughter and explained that the teacher may not like that and that it's polite to just wait her turn patiently and stay in her place in line. So she does that now always. But the teacher still does this. Sometimes my daughter is the only one with her hand up and I will see the teacher make eye contact with her and clearly see her, and continue scanning over the kids looking for someone else to choose. Or she will wait until another child raises their hand and still not choose my daughter. She does this every day. I used to think it was just an innocent oversight but after more than a month of it and several scenarios with it resulting in the exact same thing, it's very clear that it's intentional. I just can't understand why. It feels like she doesn't like my child. But I feel like that shouldn't matter, and all the kids should be treated fairly and equally. I don't know what to do or if I should just ignore it or how to handle it.

2 child raising scenarios from r/Parenting

Scenario 2: middle schooler suspended

³⁸⁹ Son was suspended from school.

Tween 10-12 Years

He is 12. Apparently, he got in an argument with another student, stormed out of the room and kicked a door, shattering the glass in the door.

He is suspended two days, and I am going to repair the glass.

When I picked him up, he was crying and felt bad. I was pissed and took him to a local field and made him run a bunch of sprints.

Now, we are home and he is writing letters to apologize to all involved. I have taken away his electronics and television and am going to make him do a book report while he is home the next two days.

Is there anything else you would advise, or anything you think I could have done better. I don't want this happening again.

Many thanks

Prototype 3: Advice Confidence

Scenario 1: child ignored by teacher

· · ·

Sample responses from Redditors

Sample Response to Scenario 1: " Send an email to her (cc admin?) And let her know that you are typically there early, and almost every day see her waiting to respond to your daughter. That if this is meant to be corrective, for some behavior, it needs to be addressed more directly and you're happy to discuss it, but that whatever the reason is isn't clear to the daughter (or you) and means you are left waiting longer than necessary AND taking up space in the crowded pickup queue which holds up other parents. "

Scenario 2: child suspended

Sample Response to Scenario 2: "The punishment should fit the crime. If you're going to make him do a book report, make him read a book/article on self-regulation techniques so he knows what to do the next time he feels the need to damage something. If you're going to repair the glass, make him help or make him do extra chores to pay for the repairs. The apology letters were a good start, though."

Prototype 3: Walkthrough Video

Parenting Advice Game

Read the two parenting relevant scenarios below and answer what you would do in each case.

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Not shared

Draft saved

* Indicates required question

Google Form

Scenario 1: "In first grade, children line up after school and raise their hand when * they spot their parent. The teacher then selects children one by one. Despite arriving early and my daughter raising her hand promptly, the teacher consistently overlooks her, even when she's the only one with her hand raised. Initially, I thought my daughter's behavior of crowding might be the issue, so I advised her to wait patiently. However, even after correcting her behavior, the teacher continues this pattern. It seems intentional and gives the impression that the teacher may have an issue with my child. I believe all children should be treated equally. I'm unsure how to address this situation."

What Would You Do?

Your answer

(!) This is a required question

Discovery questions

What would a parent give as advice to another parent?

Are parents confident in their answers?

(How) does reading other parents' advice affect their confidence level in their own answer?

Prototype 3: Interview





Interviewed Japanese couple from Narita with 1 year old daughter

> Japanese! Participant used phone translator to type out answers Conservation of the . LTE 7 English (US) 是正処置は子供と一緒に考えるべきである 🗙 ということがわかった I have found that corrective action should be considered with the child.

Translated questions

from English into

Interviewed Japanese couple from Narita with 1 year old daughter

Prototype 3: Results

Participant initially lacked confidence in answers but increased after reading sample responses Participant felt validated when he realized common themes in his answer and the sample response

Participant found it useful to get other parents' opinions Participant wished there were more sample responses

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Next Steps



Accessibility & Ethical Concerns



-THANKS!

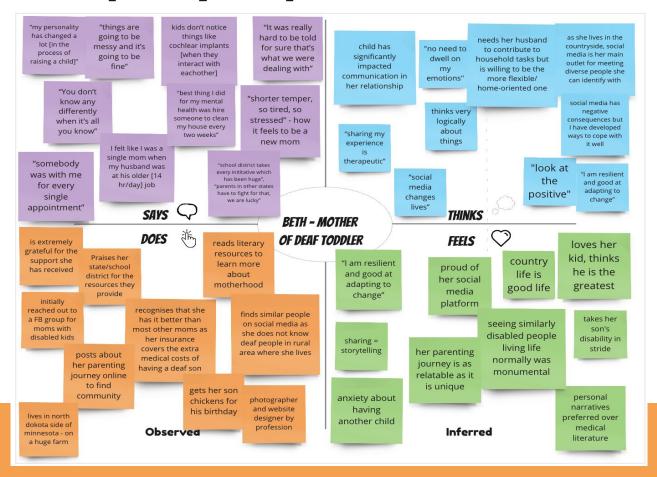
Any questions?

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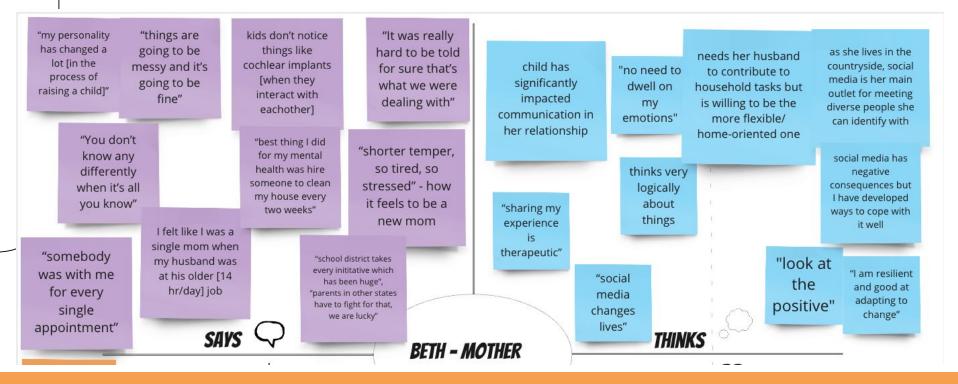
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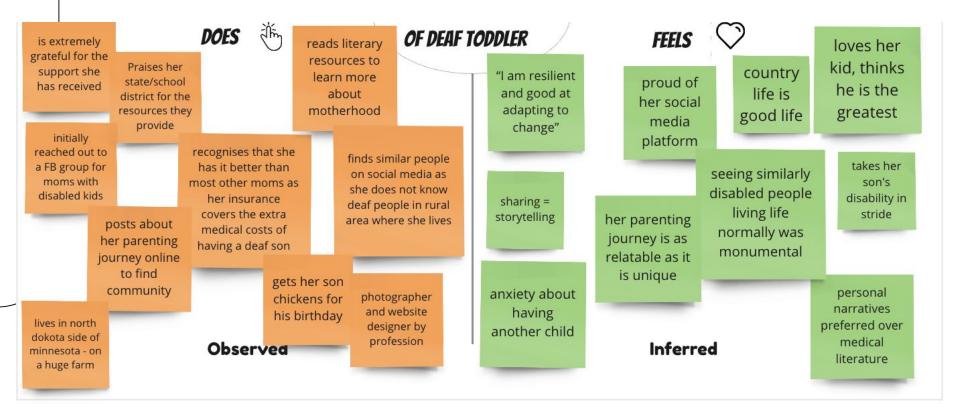
Appendix

Beth's Empathy Map

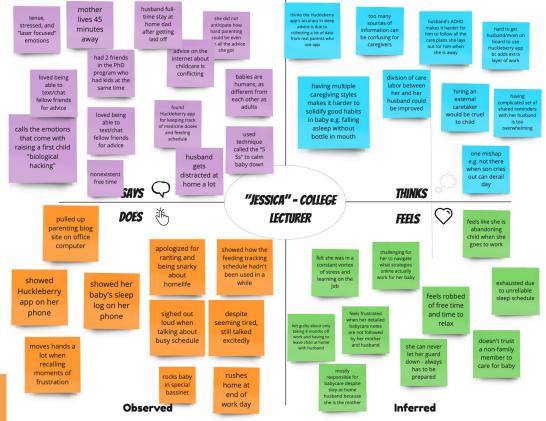


Beth's Empathy Map – Zoomed in...

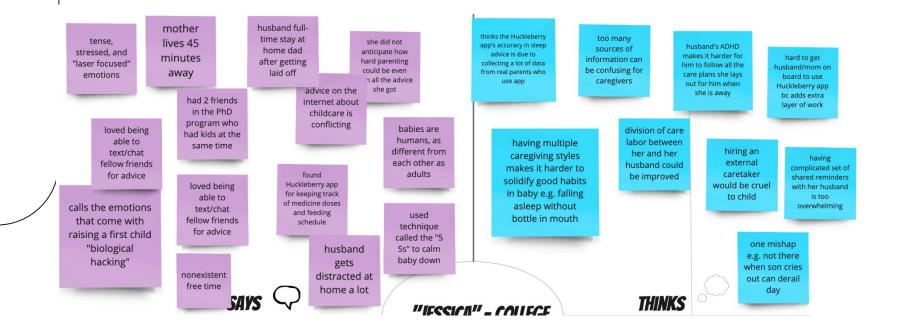




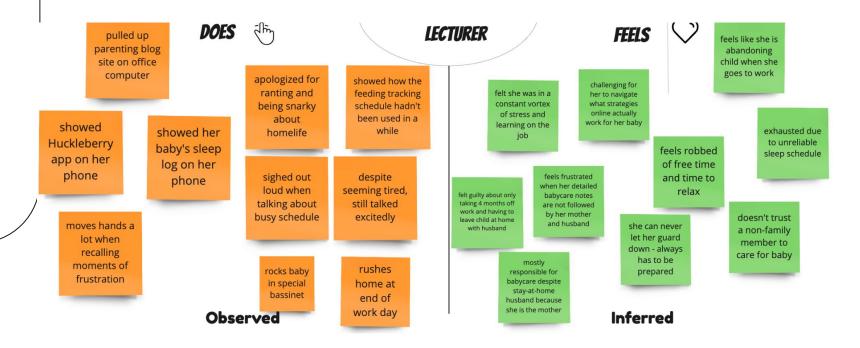
Jessica's Empathy Map



Jessica's Empathy Map – Zoomed in...

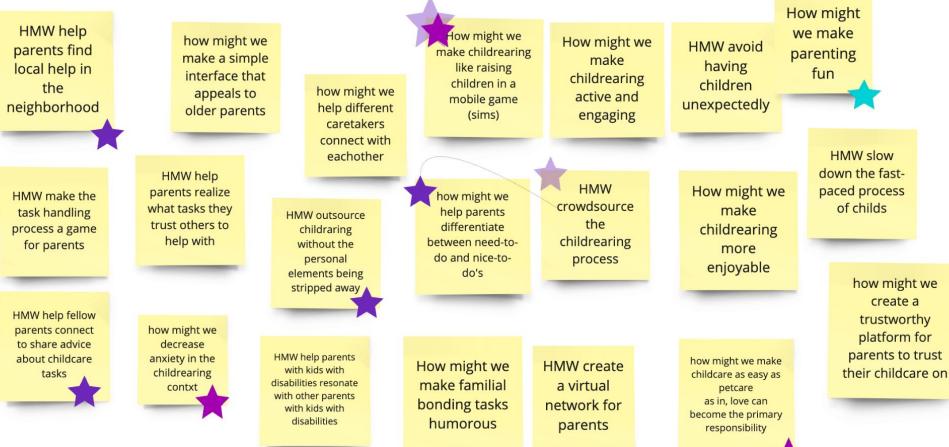


Jessica's Empathy Map – Zoomed in...



HOW MIGHT WE

BETH



HOW MIGHT WE



JESSICA

HMW 1 Solutions Brainstorm

how might we make it easier for working parents to communicate on household/childcare tasks

KALENDLY FOR KIDS!

Help parents act like babies together to bond how could we attach a baby to both parents to increase

bonding

a shared

scheduling

system for

parents to

distribute tasks

a way for parents to engage in teambuilding exercises with each other to develop shared goals

a walkie-talkie system for parents to communicate when physically separated

A digital sticker reward system that allows parents to redeem "favors" from each other based on their contributions to the childrearing process Introducing housecare reminder notifications without distracting from your workday

> a system with nonignorable notifications until proof of completing the task has been provided

Bring fortune cookies to reverse parent roles and hand out new ones in a surprise event (like the freaky friday movie)

An LLM chatbot for parents to ask questions Siri/Alexa could be your personal assistant FR schedule tasks for you in your calendar, etc - one-stop shop for everything

An EEG reader that can transmit emotions through electrical signals to the other parent Mood rings that sync

up with

eachother

integration into Apple Watch

HMW 2 Solutions Brainstorm



how might we make a "bag to scream into"

Journaling application where you can speak Community driven your thoughts out loud venting space for first and follow up with parents having a make a tube that parents swear word a journaling entry hard time that can blow into when they're option to elaborate on coloring book provides meaningful frustrated, based on emotions and thoughts resources for molecular analysis of the with baby coping! breath, track how much imagery has been contributed by each parent Make a face mask that doesn't allow make a digital others to hear notebook where maternity clothing that your screams parents can write is fashionable and down their a literal bag that parents inverts the image of a frustrations can scream into, buy "mother"/ "grownup" collectible merch for (like (letting them feel young charm bracelets) and hide again) discreetly from their kids (so that they don't need to sanitize their expression) a "rantline" a collection of virtual bags corresponding an outlet for for parents to different frustrated parents emotions that you to express can fill up or empty frustrations

HMW 3 Solutions Brainstorm

make a parenting

blog community

where parents

can share

struggles and

empathize

Initial POV Generation and Voting

Amanda POV

POV Structure:

We met... (People you are inspired by) Amanda, a mother who has been teaching K and 1 students in Palo Alto for 25 years and loves her job a lot.

We were surprised to notice...

That Amanda was concerned about the ability to communicate information to parents, as a result of a lack of access to technology for example only having access to email at their workspace or even lacking the habit of adequately checking online communication channels – and that this negatively impacted how she communicated information to her dassroom as well.

We wonder if this means (What did you infer? need - verb reflecting user needs) Both parents and teachers are confused on what the best way to communicate with each other is

It would be game-changing to... (Frame up an inspired challenge for your team. NOT a reason for the need! Not a solution, but a more informed problem) Help teachers and parents learn the norms of communication with each other and create a parent and teacher friendly centralized system for doing so

Beth POV

POV Structure:

We met... (People you are inspired by) Beth, who is a mother of a deaf toddler she had unexpectedly right after marriage and now raises him on a farm in Minnesota

We were surprised to notice.

Scott

That she said the best thing she did for her mental health was to hire someone to clean her house every week (comething like this was a malit hing that did not come up in our personal thrining about new family's meets) we wonder if this mane (Mhat did you lind hor keel - with reflecting user needs) wonder if this mane (Mhat did you lind hor keel - with reflecting user needs) works of care that can be obtiourced to a birg party that we can consider addressing whore the care to be obtiourced to a birg party that we can consider addressing through our work .

It would be game-changing to... (Frame up an inspired challenge for your team. NOT a reason for the need! Not a solution, but a more informed problem) Find a small mechanical task involved in childrearing that can be outsourced to make more time for parental wellbeing and familial bonding.



Nancy

We met Nancy, a support group leader for new moms with 40 years of experience, a mother and grandmother We were supprised to hear that there is such a distinction in learning goals between mothers of bables from 0-6 months old and those with kids 6 months to 1 years old.

We wonder if this means that "new" is a relative term and that mothers need better ways to meet each other at the same point in the child raising experience It would be gamechanging to help parents at the same point in the childcare process to connect with each other and identify shared roadblocks We met Scott, a pediatric cardiologist and father of 3 kids. We were surprised to hear that learning to navigate the childrearing process did not necessarily get easier as he had more children since each child had their own unique needs

We wonder if this means the complexity of parenting goes beyond mere experience and that it involves a continuous learning curve

It would be gamechanging to help parents have access to a wide knowledge of strategies that have worked for other parents based on their experiences

"Jessica"

POV Structure:

We met... (People you are inspired by) "Jessica", a college lecturer who has a 10 year old month son that is collectively cared for by her, her husband, and her mother We were surprised to notice...

That even floagh she shares a variety of detailed schedules and an app specific for managing baby care with her mom and husband to help them keep track of tasks when she was away from home, they often didn't follow the plans she wanted, resulting in different types and levels of care for her child.

We wonder if this means (What did you infer? need - verb reflecting user needs). It can be challenging for different people to take care of the same child and provide consistent care and that too many sources of information can be overwhelming.

It would be game-changing to... (Frame up an inspired challenge for your team. NOT a reason for the need! Not a solution, but a more informed problem)

Help individuals caring for the same child to learn how to be on the same page with their care plans.