#### Assignment 1

Needfinding interviews





# UNDOMINATE TEAM 3

HAWI, LINDA, ETHAN, DEVORAH

#### INTRODUCING

## TEAM 3



Hawi Abraham '24

any/all

Symbolic Systems

Fun Fact:

I am a retired steel pan player



they/she
Science, Technology, and
Society
Fun Fact:
I own a custom wig company,
and recently made a custom
wig for Kehlani.



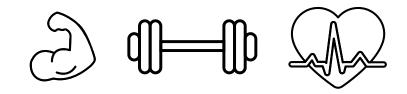
he/him
Computer Science
Fun Fact:
I have an identical twin brother,
and we used to compete as a
synchronized diving team

Ethan Foster '24



she/her
EE BS '22, CS MS
Fun Fact:
I run Shtultz, an organization to provide resources for ultraOrthodox queer youth in their languages.

Devorah Simon 23



# PROBLEM DOMAIN



#### Un-dominating Fitness & Body Image

From the New York Times Article: "Can 'Body Neutrality' Change The Way You Work Out?":

"Body neutrality prioritizes the body's function, and what the body can do, rather than its appearance," says Anne Poirier, body-image coach. "You don't have to love or hate it. You can feel neutral towards it."

Many fitness apps, such as Noom, My Fitness Pal, and many others, frame fitness through the lens of dominating your physical appearance and body image. Rather than actually developing a healthy relationship to your body image, just lose the weight and get the body you want and you won't have to deal with the dysmorphia! Right?

Wrong. We asked a variety of people about their relationships with health, fitness, and their body image in order to explore how we might un-dominate fitness & body image.

#### **PARTICIPANTS**



Mike
outside Pizza My Heart, Palo Alto
works in IT; from Arizona; visiting the area

**Extreme** (?) **user:** Mike may represent the opposite extreme of Kayla in that he does not and does not intend to regularly work out or be physically active. He says that his life is too busy and stressful to regularly work out. We hesitate to call him "extreme", though, because it's likely that many many users will share his sentiment.

Interviewed by Hawi Observed/Notes Taken by Linda



Jasper outside Verve Coffee, Palo Alto

Chinese immigrant; recently moved from SF to LA

Moderate user: Jasper represents a moderate level of investment and interest in fitness. He works out a few times a week and is interested in being physically active to maintain his health, but not interested in working out everyday or heavily transforming his body.

Interviewed by Hawi Observed/Notes Taken by Linda



Kayla
Zoom
Truck dispatcher and professional
bodybuilder

Extreme user: Kayla is an extreme user due to her professional investment in fitness and how often and intensely she works out. She interfaces with fitness, health, and her body image much more than the average layperson.

Interviewed by Ethan Observed/Notes Taken by Linda Can you tell me about the last time you were physically active?

What are your health and fitness goals? How are you working towards them?

What does it mean to be "healthy"/"fit"?

How has your relationship to fitness affected how you view your body?

#### "I'M PRETTY LAZY"



after moving from LA

GOES ON TO DESCRIBE
WORKING OUT IN A GYM
TWICE A WEEK, PLAYING
TENNIS, AND GOING ON
REGULAR MORNING RUNS

"...COMPARED TO MY
FRIENDS" WHO HE
DESCRIBES AS HAVING
"BIG MUSCLES"

# Insight

Though Jasper is regularly physically active, he views himself as "lazy" because others' physical appearance seem more "fit" than his.

### Need!

People want validation from others regarding their perception of "fit" or "healthy".

People tie their perception of health to their body image.



worker; visiting the Bay Area

# "WORKING OUT SHOULD BE ABOUT CONNECTING WITH NATURE IN OUTDOOR ACTIVITIES"

# Insight

Has little motivation to go to a gym, but open to outdoor physical activity in nature

### Need!

People need to **connect** with the physical activity that they partake in



worker; visiting the Bay Area

"MY BODY IS VERY BAD."

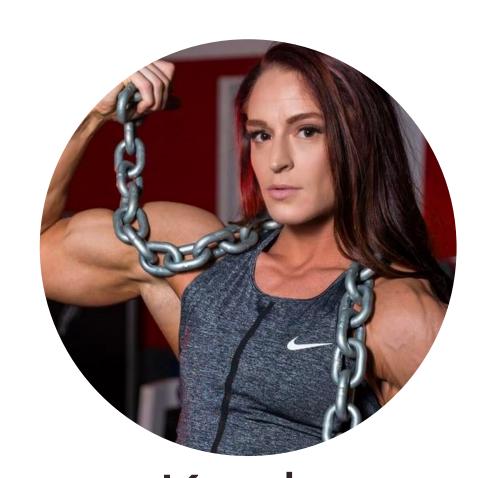
DESCRIBING HOW HIS
BUSY SCHEDULE MAKES IT
HARD TO PRIORITIZE
FITNESS:
"I KNOW IT'S WRONG, BUT
THAT'S LIFE."

# Insight

Mike feels personal failure and a loss of control with regards to his ability to regularly workout.

## Need!

People need to feel empowered to partake in whatever amount of physical activity works for their life and their schedule.

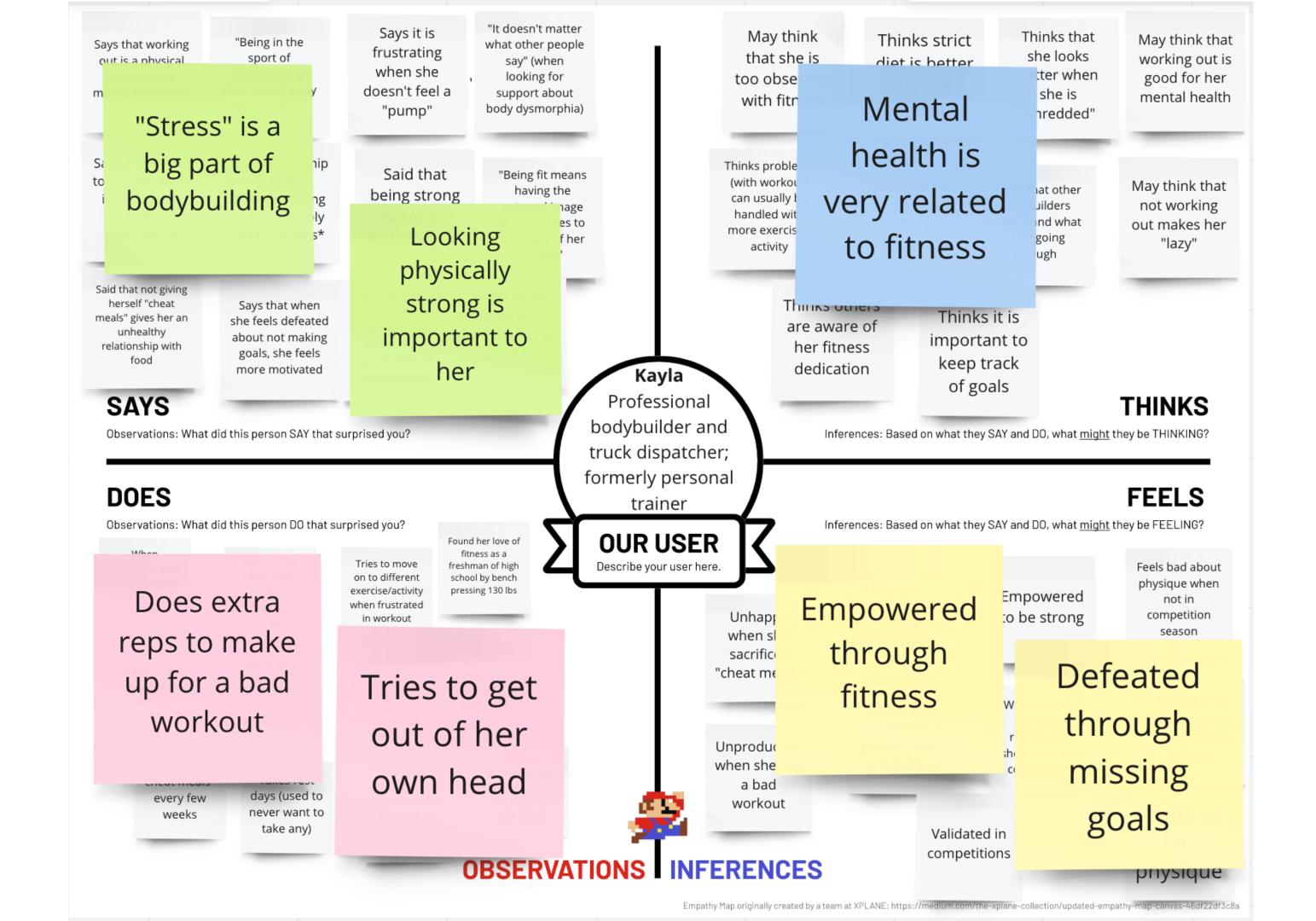


Kayla
Truck Dispatcher and
Professional Bodybuilder

# "WORKING OUT IS A PHYSICAL STRESSOR BUT A MENTAL DE-STRESSOR"

"It doesn't matter May think Says it is Thinks strict Thinks that May think that "Being in the Says that working what other people frustrating that she is she looks sport of working out is out is a physical diet is better say" (when when she bodybuilding better when stressor but looking for too obsessed good for her for her doesn't feel a gives unreal body mental destressor support about she is mental health with fitness "pump" dysmorphia" body dysmorphia) physique "shredded" Said that she will "Being fit means Says it is helpful "My relationship Thinks problems have a hard time having the Thinks it is not Thinks that other to not feel alone with (with workout) bodybuilders outward image May think that working out enough to just fitness/working understand what in feelings on that she likes to can usually be not working without the go to the gym take care of her handled with she's going body out is probably out makes her motivation of to be healthy more exercise / fitness" through toxic" \*laughs\* dysmorphia "lazy" competitions activity "Stress is the Said that not giving Mental health silent killer" (to Thinks it is Said that Thinks others herself "cheat Says that when is very body building meals" gives her an she feels defeated being strong important to are aware of unhealthy important to about not making makes her goals) relationship with her fitness keep track goals, she feels fitness feel powerful food dedication of goals more motivated Kayla SAYS Professional **THINKS** bodybuilder and Observations: What did this person SAY that surprised you? Inferences: Based on what they SAY and DO, what might they be THINKING? truck dispatcher; formerly personal **DOES FEELS** trainer Observations: What did this person DO that surprised you? Inferences: Based on what they SAY and DO, what might they be FEELING? **OUR USER** Found her love of When fitness as a Gets in her Tries to move Describe your user here. Feels bad about something feels freshman of high head when on to different physique when school by bench off in a workout, Defeated she doesn't exercise/activity **Empowered** not in pressing 130 lbs she does extra when frustrated feel good in when not competition Unhappy to be strong in workout the gym reps hitting weight season when she and physique Meal preps sacrifices goals with her Rolls out Walks through "cheat meals" Turns to boyfriend for after a problems in teammates and every meal of Worried about Hopeful for workout workout to other every day Happy that her fitness bodybuilders afterwards the upcoming feel better about body image she shares a regime after competition issues she's done with Unproductive passion with season Writes competitions her boyfriend when she has workouts and Takes rest a bad tracks weight "Indulges in days (used to Walks often, takes workout with pencil Proud of cheat meals" never want to supplements, and and paper every few does infrared Validated in her take any) saunas in addition weeks competitions physique to workouts **OBSERVATIONS I INFERENCES** 

Empathy Map originally created by a team at XPLANE: https://medium.com/the-xplane-collection/updated-empathy-map-canvas-46df22df3c8a



#### Contradictions

Working out is a "mental de-stressor", yet the sport of bodybuilding exerts much stress on Kayla's mental wellbeing.

Working out provides Kayla with both feelings of empowerment and defeat.

#### **Tensions**

Kayla gets in her own head when a work out is not going smoothly, or when she does not reach her fitness goals.

#### Surprises

Much of Kayla's motivation to work out comes from outward appearance and perception from others.

## Insight

Kayla does extra reps or additional exercises when she doesn't "feel" a workout

#### Need!

People need to feel productive when engaging in fitness

# Insight

Kayla turns to her boyfriend, coach, and teammates for support and encouragement

#### Need!

People need to feel supported by others in their health and fitness journey

# KEY LEARNINGS



People often look to others when thinking about their own fitness / health. They want companionship in fitness.

2

People's perception of how healthy and fit they is heavily influenced by their body image.

3

One's perception of their own health has the ability to empower or defeat oneself.

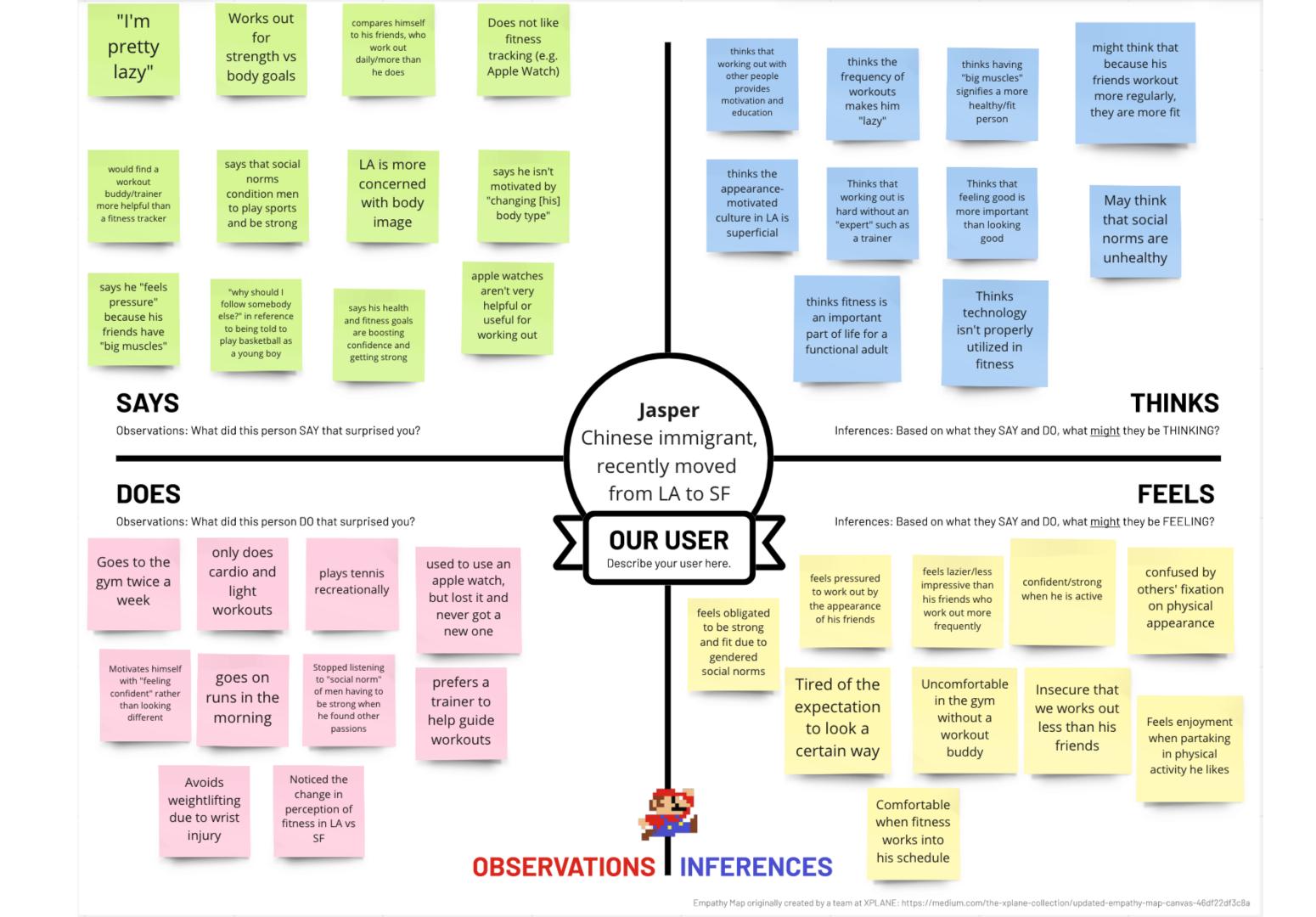
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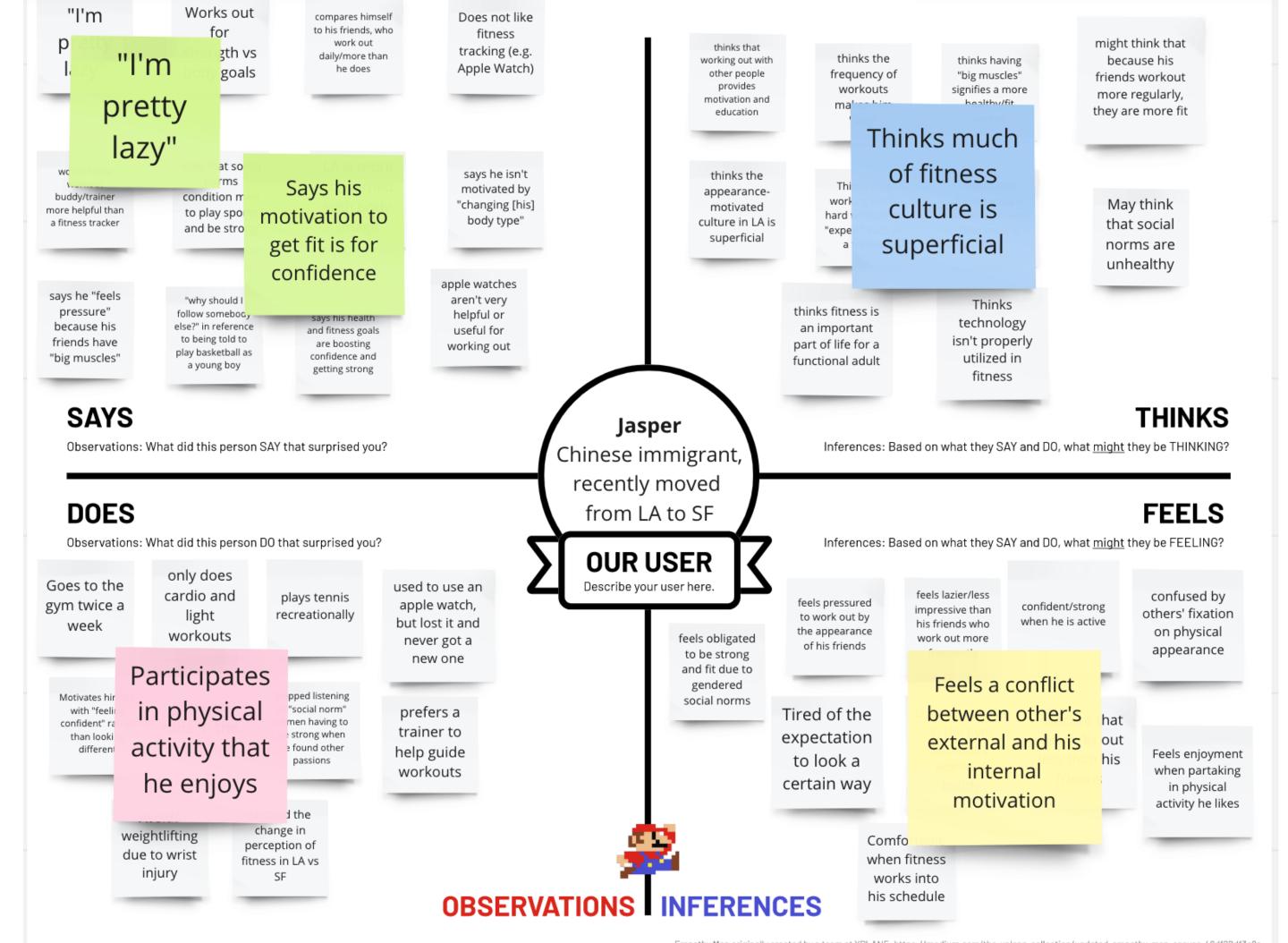
People want to feel productive when they exercise or practice fitness.

# NEXT STEPS

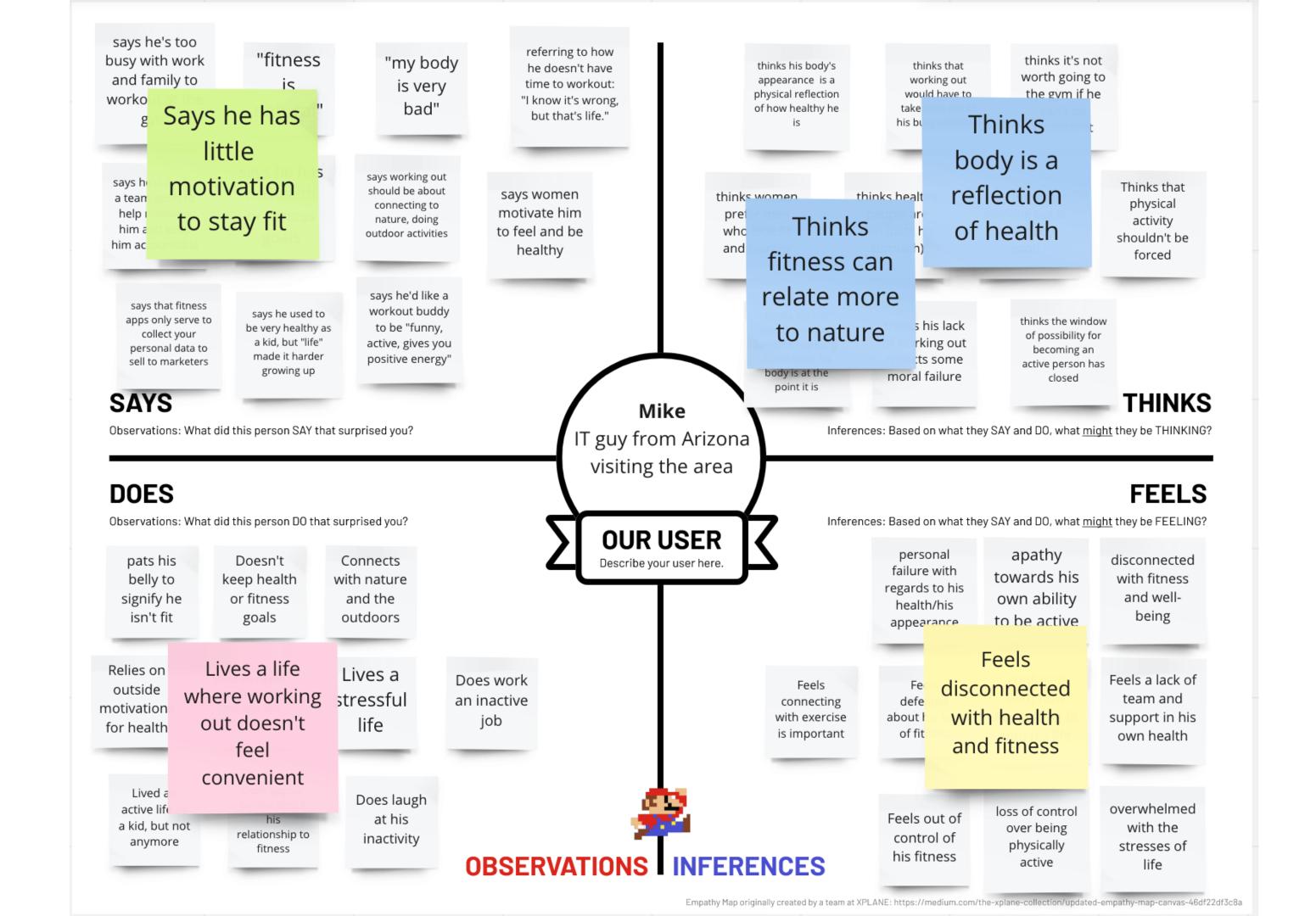
- Deepen our focus and continue conducting interviews
- Formulate POVs for potential users and use "How Might We" statements to focus in on a potential problem
- Create and test experience prototypes to verify our assumptions

# APPENDIX





says he's too referring to how "fitness thinks it's not busy with work "my body thinks his body's thinks that he doesn't have worth going to and family to appearance is a working out is is very time to workout: the gym if he physical reflection would have to workout at the "I know it's wrong, bad" of how healthy he natural" take time out of can't be but that's life." gym his busy schedule consistent says he has says working out says he'd prefer Thinks that no health should be about says women thinks healthy May think that a team sport to thinks women physical connecting to motivate him help motivate or fitness prefer men people are working out is nature, doing activity him and keep to feel and be who look fit thin (pats his inherently outdoor activities goals shouldn't be him accountable and healthy stomach) good healthy forced says he'd like a says that fitness workout buddy says he used to thinks it's not apps only serve to thinks the window thinks his lack to be "funny, be very healthy as worth trying to collect your of possibility for a kid, but "life" of working out active, gives you become regularly personal data to becoming an made it harder positive energy" active since his reflects some sell to marketers active person has growing up body is at the moral failure closed point it is SAYS **THINKS** Mike Observations: What did this person SAY that surprised you? Inferences: Based on what they SAY and DO, what might they be THINKING? IT guy from Arizona visiting the area **DOES FEELS** Observations: What did this person DO that surprised you? Inferences: Based on what they SAY and DO, what might they be FEELING? **OUR USER** personal apathy pats his Doesn't Connects disconnected Describe your user here. failure with towards his keep health belly to with nature with fitness regards to his and wellsignify he or fitness and the own ability health/his isn't fit being goals outdoors to be active appearance Relies on Lives a Used an Apple Does work confused Feels a lack of Feels Feels outside watch a long stressful with how team and an inactive defeated connecting time ago but motivations fitness can fit with exercise about his lack support in his job life no longer for health of fitness is important into his life own health Does appear Lived an Does laugh candid about overwhelmed active life as loss of control Feels out of at his his a kid, but not with the over being relationship to control of inactivity anymore physically stresses of fitness his fitness **OBSERVATIONS I INFERENCES** active life



#### Consent Form

Undominate Team 3's prototype is being produced as part of the coursework for Computer Science course CS 147 at Stanford University. Participants in the experimental evaluation of this prototype provide data that is used to evaluate and modify the interface of Undominate Team 3. Data may be collected by interview, observation and questionnaire.

Participation in this experiment is voluntary. Participants may withdraw themselves and their data at any time without fear of consequences. Concerns about the experiment may be discussed with the researchers (Hawi Abraham, Linda Denson, Devorah Simon, and Ethan Foster) or with Professor James Landay, the instructor of CS 147:

James A. Landay CS Department Stanford University 650-498-8215 landay at stanford dot edu

Participant anonymity will be maintained by the separate storage of names from data. Data will only be identified by participant number. No identifying information about the participants will be available to anyone except the student researchers and their supervisors/teaching staff.

I hereby acknowledge that I have been given an opportunity to ask questions about the nature of the research and my participation in it. I give my consent to have data collected on my behavior and opinions in relation to the Undominate Team 3's research. I understand that I may withdraw my permission at any time.

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<u></u>
I give consent to be audiotaped during this study:
\YesNo
I give consent for video or audio recordings from this study to be shown to people not directly involved
with this research during/in class, seminars, reports, or scientific presentations.
Name Xuylu Mulphy
Participant Number
Date D13/22 Signature Hory 6 Murau

Laive consent to be videotaped during this study:

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Date 10 (3 / 2022
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