Assignment #1: Needfinding

Due: At the start of your Thur/Fri studio (Jan. 21-22)

Overview

In this assignment you will plan, develop, and execute the first needfinding round for your quarter-long team project. You will present your interview plan (methodology), data gathered from your initial interviews, and the key insights and inferences you have made. You will capture this analysis in an empathy map that you will share in the studio next week.

Project Requirements

1. Make a plan to interview at least 3 people related to your studio theme. If you have a slightly narrower problem domain that you have identified within your studio theme (e.g., interested in “cancer” in the “health theme”), you can focus on that (ask your CA for guidance if unsure). The interviewees should be end users and can include up to one domain expert, as needed. The interviews can vary from short interviews, e.g., 20 minutes to long interviews, e.g., 60 minutes. Given the virtual quarter, these interviews will most likely take place over Zoom.

2. Shape your plan
   a. Determine what your domain of interest is (describe it as well as you can & include pictures in the final report that help to illustrate it).
   b. Who will you interview, why did you choose them, where and when will the interview take place, and did you offer any incentive/payment? Think about finding some extreme users.
   c. What questions will you ask? Try to outline areas of inquiry you intend to probe? Make sure to plan some questions and focus on “why” and “feelings.”

3. Get out and interview
   a. Interview no more than one Stanford student - try to get participants from off campus and also avoid interviewing close family members!
   b. You should get your interviewees to sign a consent form ensuring their confidentiality (copy the document and modify to use it).
   c. You should aim to have at minimum two people from your team at each interview: one to lead the interview, and one to take notes.
   d. Make an extra effort to observe and interview at least some people in action in the context of your problem domain: whether that’s people wasting/saving water or food, students learning/not learning mediated by technologies, etc. Record what, how, and why they are doing what they are doing.
   e. Note - If you have trouble accessing the users you want to reach, let your CAs know as soon as possible so that we can try to help (if you wait too long, we can’t help you!).
   f. Remember these interviewing tips in the types of things to look for and how to ask. Get stories! Use the techniques you practiced in studio #1!
   g. Remember, your questions are just a guide to get you comfortable starting. Veer & pull strings to get to interesting stories and emotions.

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4. Unpack the needfinding data by using the empathy map method (see below for more information) and identify surprises, contradictions, tensions – and things that intrigue your team! We recommend you have at minimum one empathy map for your most interesting interview. The interviews will be processed further during studio. You will revise this initial empathy map based on the feedback and insights you gain during studio next week. This will be valuable in the next assignment in making sense of your user’s point of view, brainstorming “how might we’s” and in building experience prototypes. Optional: if you are experienced with creating journey maps and feel more comfortable with that technique, you can do so in place of empathy maps. In addition, you can create more than one empathy or journey map.

Finding Interview Participants
- Cold calling
  - Don’t underestimate how far your stanford.edu email/student status will get you!
- If it’s safe to do so where you live, recruit people at locations related to your domain of interest or go to a public place (e.g., coffee shops in a downtown area.)
  - If you ask respectfully and use your judgement, many people you approach will be willing to give you their time.
- Nextdoor.com
  - Get started with this early because there is a screening process to verify you actually live in the neighborhood you’re posting for.
  - If you aren’t able to get through screening by this assignment’s deadline, there will still be an opportunity to use it for next week’s.
- Social media posts
  - To get past second-degree connections, you can post on Facebook or other social media sites and encourage people to share with relevant connections (this is known as snowball sampling! -- you can also ask earlier participants if they can pass your ad on to others they know).
- Reddit posts
  - The subreddit https://www.reddit.com/r/SampleSize/ is dedicated to recruiting people for research studies or polls. This can be a good way to reach a more diverse group of people.

Deliverables
Make sure to create a new subdirectory titled “Assignment 1” in your team’s Google Drive directory (link provided by your CA) and upload your deliverables into that folder by the start of your Thur/Fri studio. Your CA will check the time of submission/modification.

1. Presentation (Individual)
The presentation should be made as a Google Slides, PowerPoint, or KeyNote Presentation that will be presented by one member of your team during your studio on January 21/22. In addition, create a PDF version of the slides, and upload both versions into your team’s Google
Drive directory by the deadline: the **start of your Thur/Fri studio** (note: you will link the PDF & a downloadable version off of your team website later in the quarter -- i.e., if you use Google Slides, you will download as PowerPoint or KeyNote and put that on your site).

2. **Interviewee consent forms**
   Make sure to *combine your consent forms as a PDF and upload it to the drive*. **Do not** put consent forms in slides as we would like to maintain participants’ anonymity.

3. **Empathy maps**
   *Unpack the data into empathy maps* by the time of your studio. Come prepared to share with others. Instructions on how to fill out an empathy map can be found [here](https://hci.stanford.edu/courses/cs147/2021/wi/).

You can use whatever tool you like to create empathy maps, but one tool that we’ve found works well for visual collaboration is [Miro](https://miro.com). You can [sign up for a free Education account](https://miro.com/education), which will give you and your team unlimited boards to work with. Miro also has templates that you can adapt into empathy maps, such as [this one](https://miro.com/), but any layout with four quadrants will do.

Try to fill each section of the empathy map with **at least 10-15 bullet points**. The quadrants below are broken up into four components. Again, for more detail on empathy maps, please refer to the link above and the lecture slides.

- **SAY**: What are some quotes and defining words your user said?
- **DO**: What actions and behaviors did you notice?
- **THINK**: What might your user be thinking? What does this tell you about his or her beliefs?
- **FEEL**: What emotions might your subject be feeling?
Try to identify some initial “needs” and develop some “insights”. Include these in your presentation.

**Presentation Guidelines**

The presentation grading will be broken into two components: the individual grade of the presenter (a single person on your team) for delivery and presentation, and a group grade for the presentation content/quality. One person on your team will deliver a 10-minute presentation (each team member will have a chance to make a presentation at some point during the quarter). Note that you should use images liberally and keep the text on the slides relatively brief (and use large fonts – no less than 20 pt). Here are two good examples from a prior class: Example 1 and Example 2.

**Suggested Organization**

- **Introduction (1 slide)**
  - List and introduce your team members (also verbally introduce everyone)
  - Your problem domain (in addition to the studio theme)
- **Needfinding Methodology (3-4 slides, include images)**
  - Make sure you say who your participants were, why chosen, how they were recruited/compensated, and where they were interviewed (include images)
  - What did you ask?
- **Interview Results (3-4 slides)**
  - Discussion of results, pictures, quotes, and surprises you gleaned from your interviews
- **Analysis (3-4 slides)**
  - Empathy Map with highlighted components of what you found important/interesting
  - Discuss tensions, contradictions, surprises in the interview
  - Inferences, conclusions, or questions you might have about your results
  - Initial assessment of “needs” and “insights”
- **Summary (1 slide)**

**Grading Criteria**

The presentation grading will be broken into two components: the individual grade of the presenter based on the presentation slides and delivery and a group grade for the content. The grades for each of these components are explained in more detail below.

**Group Grade**

- User group reach (diversity - extreme users/average users/non-users, innovativeness, appropriateness) (20 points).
- Depth of the interviews (20 points).
- Number of interviews (20 points).
- Details in unpacking using chosen methodology (20 points).
- Showed tensions, contradictions, surprises, & inferences from the interviews (20 points).

**Presenter Grade**

- Use well-designed slides. Ensure that the presentation shows appropriate preparation, and that visual aids are aesthetic, effective, properly prepared, and properly employed (50 points).

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Cover the required scope within the 10 minute time period (there will be 5 extra minutes for questions/feedback). Practice and time your presentation as we will cut you off if you go over and you will be unable to gain points for material you could not cover (20 points).

Ensure the presenter makes eye contact (10 points).

Ensure the presenter projects their voice well (20 points).