

Needfinding (Exercise)

Human Computer Interaction

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Goal

- Develop the plan for a Needfinding process in an example project
- Overview of Needfinding tools
- Plan the Observation process
- Plan the Interview process
 - Develop the Interview tool

• Interactive exercise – please contribute, suggest and comment!

An example project

We would like to SUPPORT/HELP/ENHANCE/... <target population>
TO/WHILE/IN/... <general activity/topic>

• We would like to help University Students, studying from home, to better engage with their teachers and peers

Target group

- We would like to help University Students, studying from home, to better engage with their teachers and peers
- International students? Or all from the same country? → Share one language, similar time zones
 - Language issue / Time zone issues
- Freshmen? → make a choice: YES Both Frehsmen and Senior
- Technically well-equipped? → YES
- Which Faculty/Major/Topics? → STEM-like topics, they use designs, labs, exercises
- Age? → would not affect the activities, but in range 20... 30 approx
- Disabilities? → make a choice: considered or not? NO

Activity

 We would like to help University Students, studying from home, to better engage with their teachers and peers

- Live Classes / Recorded Classes / Labs / Exercises / Homeworks / Exams / ...
- Only during official hours / Self-study or self-paced activities?
- What Media Interaction is needed (voice / text / video)
- Teachers / Peers
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Needfinding Recap

Design Methods - Needfinding

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What to do in Need Finding



The most important thing about need finding in design thinking is that we look without knowing what we are looking for. We trust that our ability to define the problem will emerge during the need finding process.

PRINCIPLES

Human Centered Design (Look to users for design inspiration.)

PURPOS

- Uncover Latent Needs: Gaps in Use, Usability & Meaning (Look for surprises, differences between what people say they do and what actually do.)
- Gain Empathy for Users (Discover the emotions that guide behaviors.)
- Look for Extreme Users (Users who are pushing the system may reveal needs before the mainstream.)

PROCESS

- Bring back Stories (specific) and Artifacts (photos, drawings quotes) that communicate your Insights.
- After the observation phase, you will gather with your team to share findings and insights. Bias toward capturing your observations in ways that are visual, sharable & evocative.
- PHOTOS

Use photos to isolate points of interest & generate later discussion. Take as many as possible: 20 / hr is a good pace.

SKETCHES

Sketches are a great way to interpret a scene, to create a broad representation or to call out specific details.



 https://hci.stanford.edu/courses/dsu mmer/handouts/NeedFinding.pdf

Planning an Observation

- What ->>> ???
- Who: a group (3-4) of Freshmen and a group (3-4) of Senior students
- Where: in their house? Observe on-line? With a wide-view camera
- When: some in live activities, some in asynchronous activities
- How: Non-intrusive external observation, see what you do, and see your screen + chat withe each of them about the reasons why you did or did not do some actions

Planning an Interview

- Direct Interview vs. Focus Group vs. Survey
- General Structure
- Questions
 - o How many?
 - o Which ones?
- Interacting
 - o Follow-ups?
- Recording
 - Paper / Audio / Video / Pictures ?