CS 147 Project Expo

Design Thinking for User Experience Design, Prototyping & Evaluation

Prof. James A. Landay Computer Science Department Stanford University

Autumn 2022

December 9, 2022

Outline

Course overview 6:00-6:25

Team pitches 6:25-6:45

Posters/demos/judging 6:45-8:45

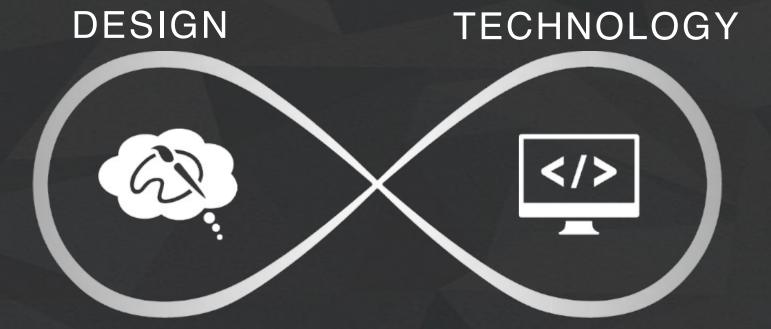
Awards 8:45-9:00

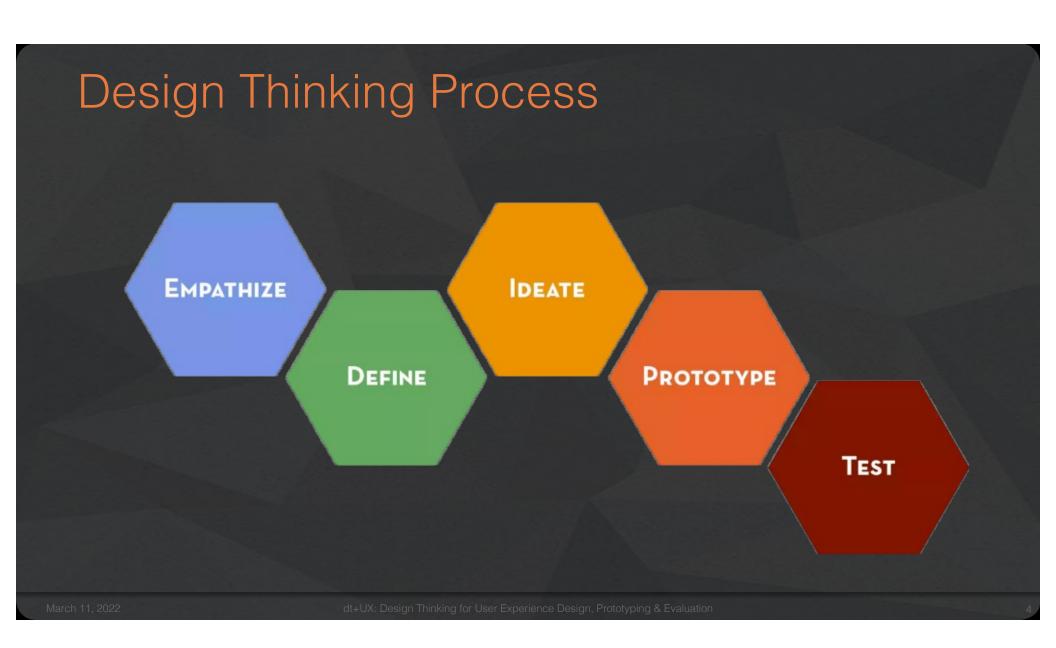






Balance



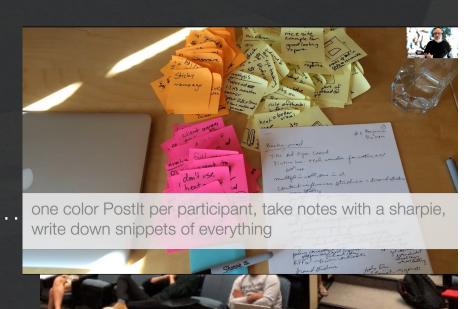


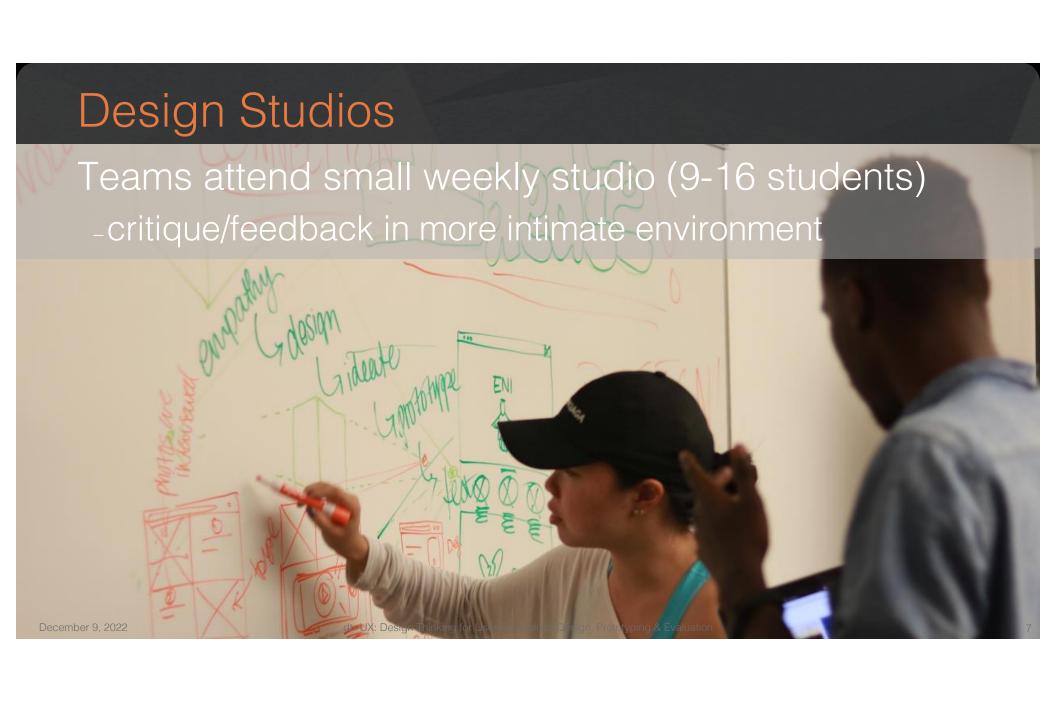
Goal of CS 147 Learn to design, prototype, & evaluate Uls

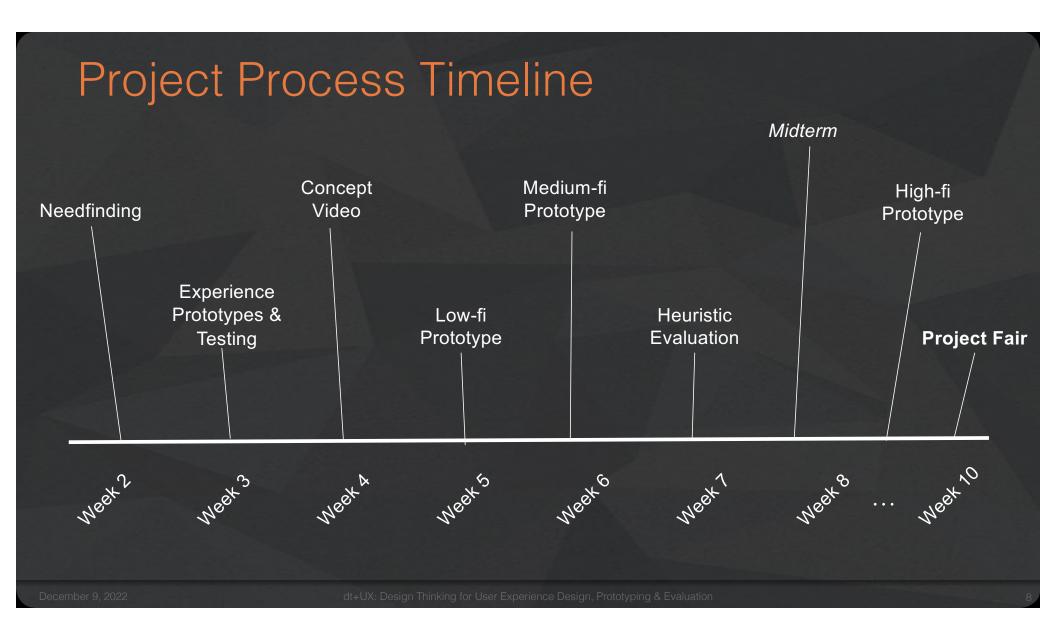
- Tasks, activities & practices of prospective users
- Cognitive/perceptual constraints affecting design
- Techniques for brainstorming, ideation & prototyping
- Methods for evaluating UI designs
- Importance of iterative design for usability
- Technology used to prototype UIs
- How to work together as a team
- Communicating results to a group

Project Based Course

- Iterative design of a real UI
- •Theme: mobile
- Quarter long projects
- Students
 - -~100 across CS, Symbolic Systems ...
- 25 Teams
 - -3-4 members
- 10 major group assignments
 - -group work is ~60% of course grade
- Four presentations
 - every team member presents







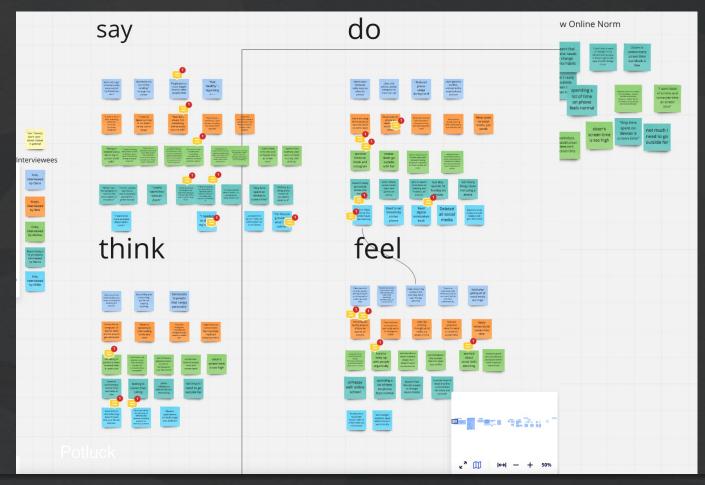
User-centered Design: Needfinding

- Observe existing practices for inspiration
- Make sure key questions answered
- Ethical questions in design w/ underserved communities

Peekaboo!



Unpacking the Needfinding







Experience Prototype to Test Assumptions



Struggle Bus

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H. LIV. Dasi

Experience Prototype to Test Assumptions



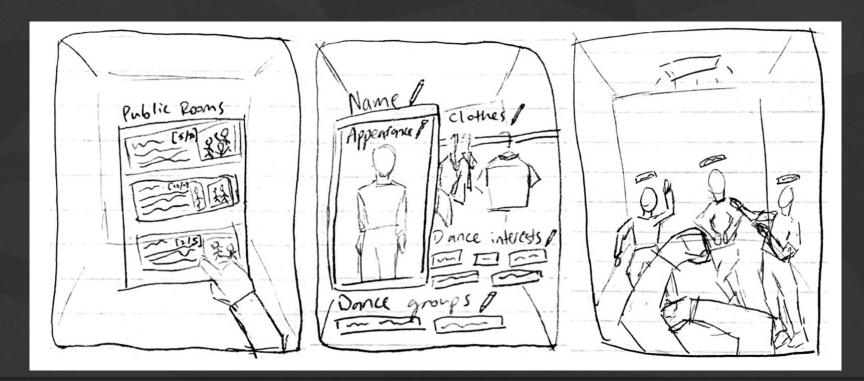
eMotion

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t+(1)

| 4

Sketching & Storyboarding



house

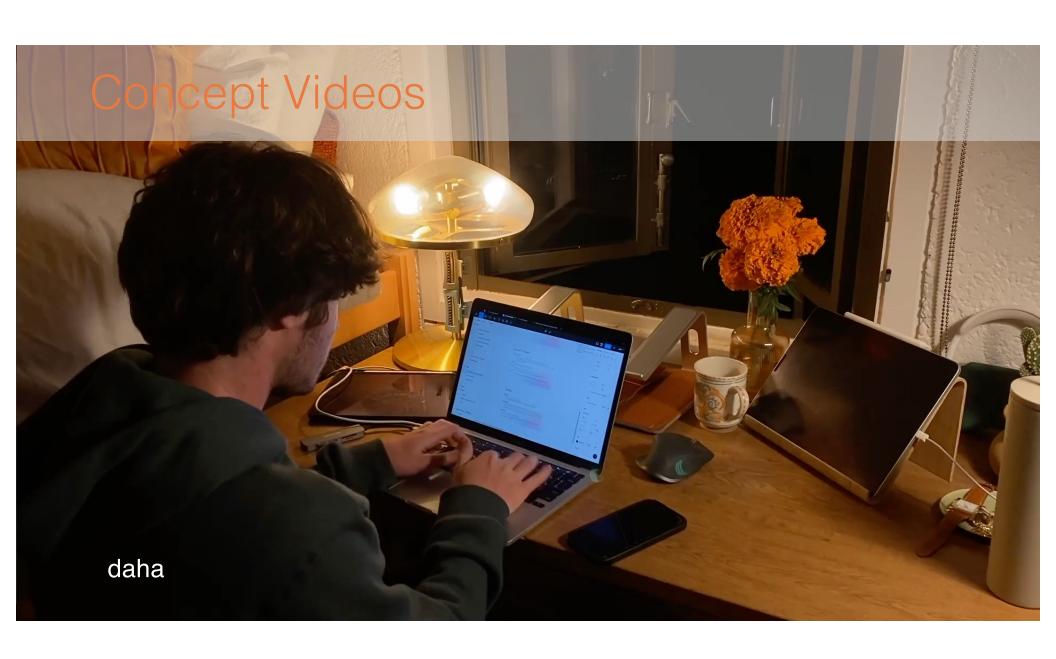
Concept Videos: Planning Storyboards



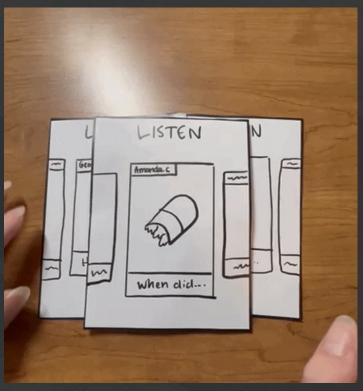
in**spy**re

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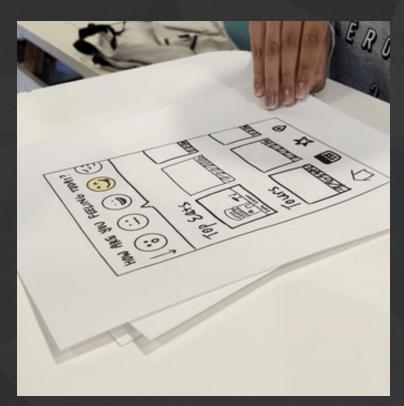
t+LIX.



Low-fi Prototyping & Testing

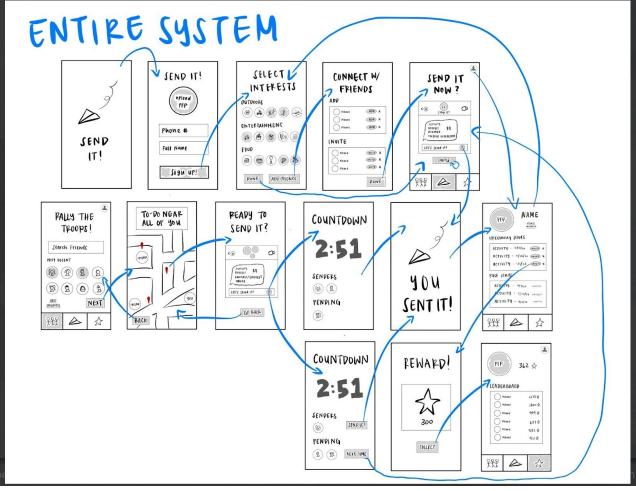


StoreaTime



UnCover

Low-fi Prototyping & Testing



Send It

Decembe

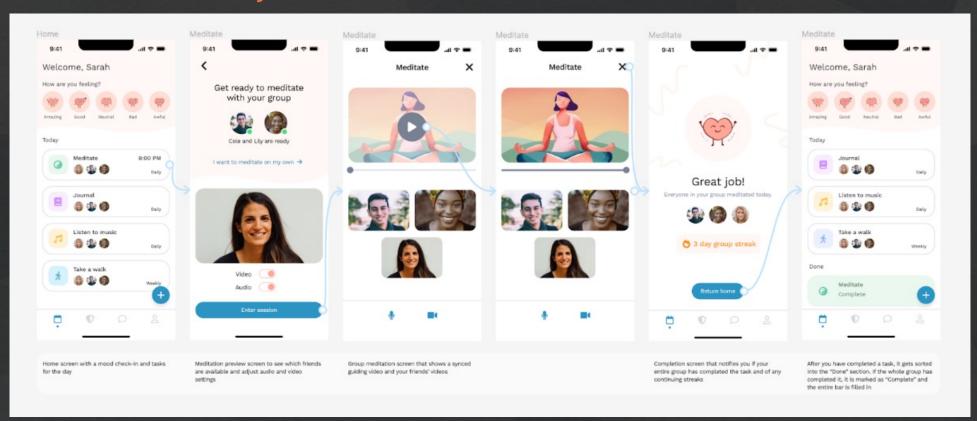


wallus

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Interactive Prototypes

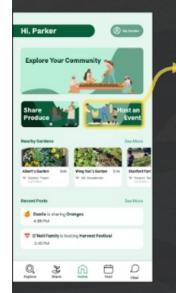
Medium Fidelity



Interactive Prototypes

Medium Fidelity

Medium Task: Schedule and edit an event at your garden



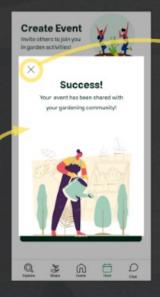
Hosting an event can be done by apping the call to action or selecting he Host nav tab.



Hosting an event is done by filling ou a form which will become visible to neighboring gardeners.



User enters event name, description, location, date, and time.



Popup modal indicates success.



and will appear on the user's garde page and in search results.

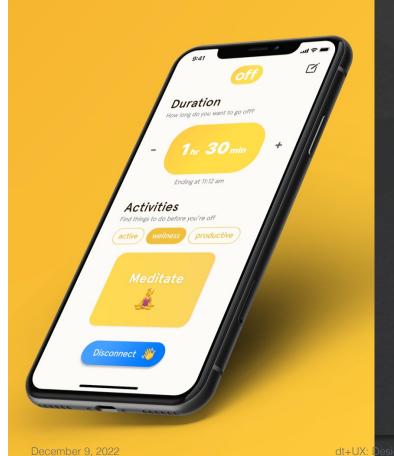


The user can edit their event details and resubmit at any time.

GardenShare

Interactive Prototypes

Hi-Fidelity off



butter



thread



Evaluation

- Test with real customers (participants)
 - w/ interactive prototype
 - low-fi with paper "computer"

- Low-cost techniques
 - expert evaluation (Heuristic Evaluation)
 - online testing



Wanderlust

http://cs147.stanford.edu

- Project web sites w/ all materials
- Lecture topics, slides, & video
- Homework assignments

The Projects

•12 Judges will be picking the best projects (announced at 8:45 PM)

•Students will have a say by voting for The Students Choice Award

http://bit.ly/cs147-au22-best-pitch

Thanks! Get Involved!

- Mentor teams in CS 194H (next quarter)
- Hire students and interns
- Support this project fair financially & HCI+Design research at Stanford

The Judges

- Siamak (Ash) Ashrafi
- Nicolas Ayoub
- Guadelupe Babio
- Chris Bennett
- Terrell Ibanez
- Cindy Jiang

- Alen Malaki
- Michael Murphy
- Christina Pan
- Ted Selker
- Javy Wang
- Sean White

THANK YOU!



THANK YOU!



The Projects

The Students Choice Award http://bit.ly/cs147-au22-best-pitch

We are checking your attendance based on this and on Bingo!



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THANK YOU!



THANK YOU!



Student Choice / Best Pitch

daha

Wallus

Career Backpack

Best Poster

Whisper

Struggle Bus

Wallus

Greatest Societal Impact

Polarity FoodZone

GardenShare

Kokoro

Most Novel Product

Trove

Dishcovery

CircLing

Best Website

StoreaTime

EduCare

Career Backup

Best Concept (3)

daha

Dishcovery

House

Best Demo (3)

EduCare

Trove

FoodZone

Best Visual Design (3)

CircLing

Send It!

StoreaTime

Bingo Raffle Winner

Peter Ling

Nicolas Caminero

Camilla Pernell

Best Overall Project

CircLing

Send It!

Dishcover