CS 147 Overview

Design Thinking for User Experience Design, Prototyping & Evaluation

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Winter 2022
March 11, 2022
Outline

Course overview  5:30-6:45
Project presentations  5:45-6:20
Posters/demos/judging  6:20-8:15
Awards  8:15-8:30
Balance
Design Thinking Process

1. Empathize
2. Define
3. Ideate
4. Prototype
5. Test
Goal of CS 147

Learn to design, prototype, & evaluate UIs

• 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
  – 209 across CS, Symbolic Systems …
• 55 Teams
  – 3-4 members
• 10 major group assignments
  – group work is ~60% of course grade
• Four presentations
  – every team member presents
Design Studios

• Teams attend small weekly studio (8-16 students)
  - critique/feedback in more intimate environment
User-centered Design: Needfinding

- Observe existing practices for inspiration
- Make sure key questions answered
- Ethical questions in design w/ underserved communities
Unpacking the Needfinding
Develop Point of Views
(Person + Insight + Challenge)

Brainstorm on How Might We Solve

WE WERE AMAZED TO REALIZE...
(what did you learn that's new?)

THAT THANKS TO THE BOAT OWNER'S MEERSCHIPS, TRUST, AND DISCIPLINE OF THE FISHING LIFESTYLE AND CONVERSION TO NATURE, HE HAD TURNED HIS LIFE AROUND FROM DRUG ADDICT INTO A JOB TO SOMEONE WITH SKILLS & COMPETENCE, IT WOULD BE GAME-CHANGING TO...
(frame up an inspired challenge for yourself, don't dictate the solution.)

ALL OF US COULD TAKE A RISK TO SEE A SPARK IN OTHERS AND NURTURE IT INTO A PURPOSEFUL TRANSFORMATION.
Sketching & Storyboarding

Selecting an Interface

How do we motivate users to complete goals?

"Gamification" vs. "Social Media"
Concept Videos: Planning Storyboards

Spice

- *emotions - look bounced*
- *spice it up*
- *stem condiments?
  *sniff*

- *cooking sounds: chop!
  size! *happy*
  excited!!

- looks yum, tastes
  yummy - emotion
Low-fi Prototyping & Testing

barefoot

memo
Interactive Prototypes
Medium Fidelity

Sex Academy
Interactive Prototypes

**Hi-Fidelity**

**BookEd**

Good morning, Cathy.

Upcoming Appointment

Physical Examination  
Friday March 5, 2021
No Interpreter scheduled

Arrive by 8:45 AM
Starts at 9:00 AM

Paro Alto Allergy Department

Find an interpreter

Past Interpreters

Gabrielle S
Sherry F
Marian B
Add a review
Reviewed
Reviewed

**Sprout**

Sound Evolution

**Pebble**

Week 30 Info

Week 30 Symptoms
Fatigue, morning sickness, and more

What You Should Know: Paternity Leave
A brief look into employer policies, alternatives, and more.

Communicating with Your Partner: Tips
Ensuring healthy communication throughout pregnancy and beyond
Evaluation

- Test with real users (participants)
- *Low-cost techniques*
  - expert evaluation (HE)
http://cs147.stanford.edu

• Project web sites w/ all materials

• Lecture topics, slides, & video

• Homework assignments
The Projects

• 12-15 Judges will be picking the best projects (announced at 9:15 PM)

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

Thanks! Get Involved!

- Team mentors in
  - CS 194H (Winter Quarter next year)

- Hire students and interns

- Support this project fair financially & HCl+Design research at Stanford
The Judges

- Matthew Jöerke
- Rob Yeh
- Katya Lavvrenova
- Frank Bentley
- Sunny Consolvo
- Kate Glazko
- Michelle Kang
- Rimma Klokoła
- Siamak (Ash) Ashrafi
- Shubha Raghvendra
- Catherine Xu
- Trijeet Mukhopadhyay
- Girija Narlikar
- Chris Yoon
- Vincent Nicandro
- Emily Tang
- Abdallah AbuHashem
- Erin Briggs
- Kally Zheng
THANK YOU!

cohouse.com
THANK YOU!
THANK YOU!
THANK YOU!
THANK YOU!
The Projects

• The Students Choice Award

We are checking your attendance based on this and on Bingo!
WINTER 2022
CS 147 – dt+UX
AWARDS
The Judges

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THANK YOU!

cohause.com
THANK YOU!
THANK YOU!
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THANK YOU!
Student Choice / Best Pitch (3)

CoCo

Match.Me

safety.net
Best Poster (3)

Cookee

noms

Merrier
Greatest Societal Impact (3)

CoCo

FlowShow

ALTiO
Greatest Personal Impact (3)

Courtesy

Spunk

SafetyNet
Most Novel Product (3)

MyndPalace

FlowShow

ALTiO
Best Website (3)

Nurtue

Collide

QuokkaTips
Best Concept (3)

LangVRse

MoodMusic

ALTiO
Best Demo (3)

Recital

SeniorCircle

Budsies
Best Visual Design (3)

Grove

Nurtue

TransitMate
Bingo Raffle Winner

Jasmine Rodrigeuz

Miroslav Suzara

Krain Chen
Best Overall Project

LangVRse

ALTiO

CoCo