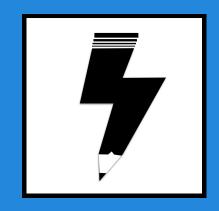
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Jenny Farman | Daniel Hok Juan Posadas

Overview

Lecture



Effective learning tool

Problem & Solution Overview

- Difficult to communicate with professor
- Intimidating lecture setting
- Lack of integration between lecture and assignments other course material

Real-time feedback and analytics

Contextual Inquiry

Participant #1 – J.B.

- 18-25, Junior, ME
- Typically attends lectures
- Quiet in lecture setting



Contextual Inquiry

Participant #2 – K.C.

- 18-25, Coterm, CS
- Technical background
- TA for CS 103



Contextual Inquiry

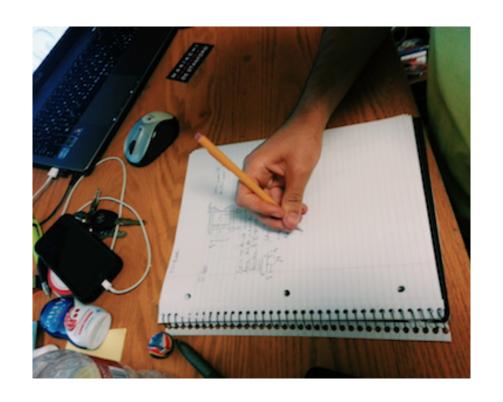
Participant #3 – J.D.

- 18-25, Senior, MCS
- Software Developer
- Eager to give feedback



Contextual Inquiry Results

- Took handwritten notes to review later
- Access to mobile devices in lecture
- Frustration with content or organization of lecture
- Reluctance to share nonanonymous feedback



1. Who is going to use the system?

Students who attend or watch lectures

2. What tasks do they now perform?

Note taking, referencing course materials

3. What tasks are desired?

- Rapid, anonymous feedback → professor adapts
- Easier navigation through material / lecture videos

4. How are the tasks learned?

Trial and error, routine, preference

5. Where are the tasks performed?

In lecture, mobile device, online lecture platform

6. What's the relationship between customer & data?

- Lots of data lost due to lack of immediate feedback
- Lack of data that helps students navigate through online lecture videos.

7. What other tools does the customer have?

 Class evaluations, Piazza, pen and paper, in-person communication with professor

8. How do users communicate with each other?

 Difficult to talk to teachers; students discuss lecture with peers both in person and online (social media, Piazza)

9. How often are the tasks performed?

Class schedule determines # of lectures

10. What are the time constraints on the tasks?

 Students need to stay up-to-date with lecture videos / course materials

11. What happens when things go wrong?

No communication → confusion on concepts

Representative Tasks

Clarify questions and solidify understanding of course topics



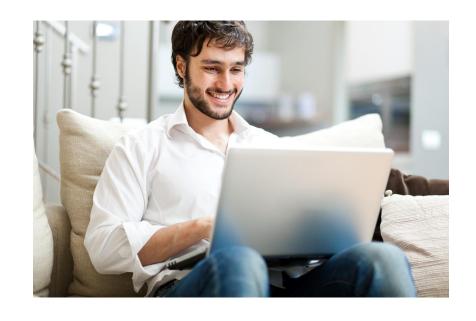
Representative Tasks

Influence pace, content, or organization of course lectures



Representative Tasks

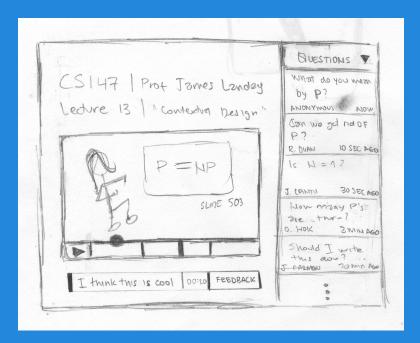
Stay engaged and up-to-date with lecture videos and course materials

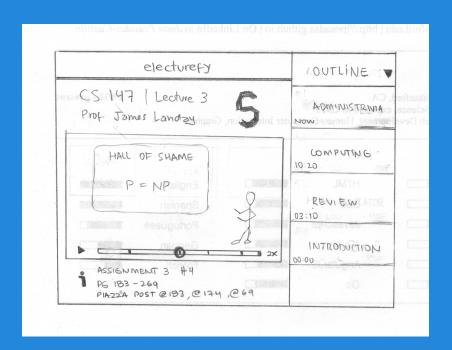


Application Ideas

Time-stamped Feedback System

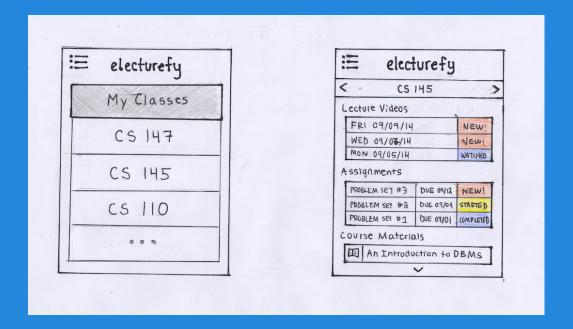
- Users enter questions / comments in real time as they watch lecture videos
- Time-stamped feedback corresponds to lecture video (i.e. Soundcloud comments)



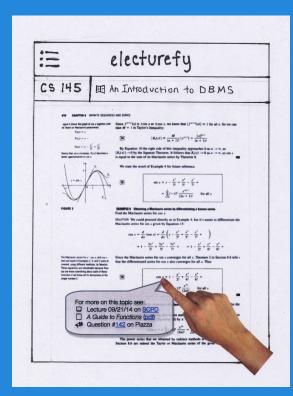


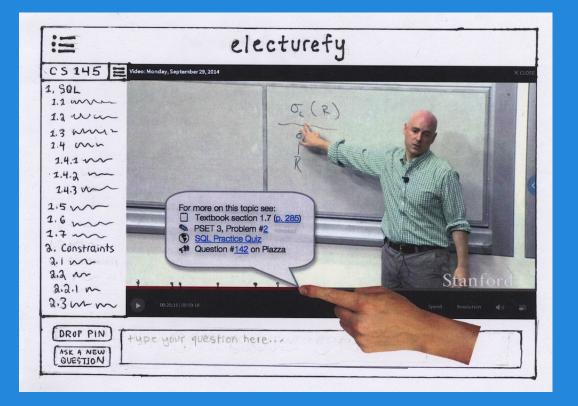
Integrated Course Materials Platform

- Connects relevant sections of course materials / lecture video
- Helps to solidify understanding
- Requires staff to populate content



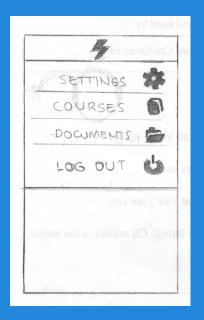
Design Idea #2 – Integrated platform for course materials / feedback

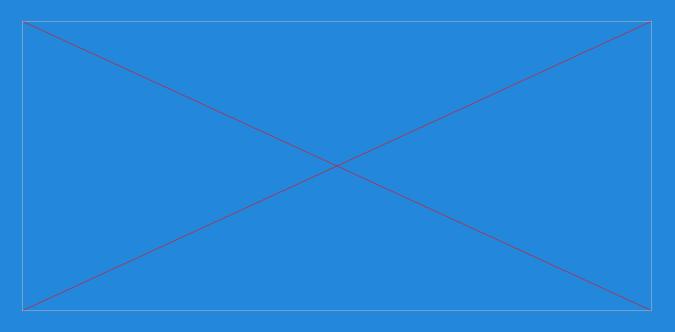


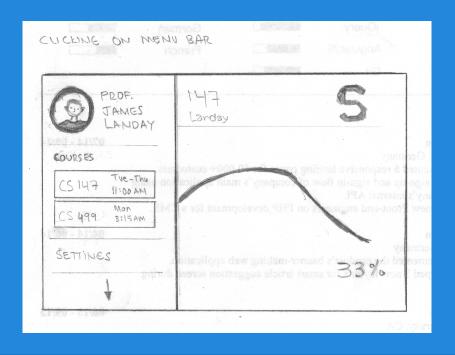


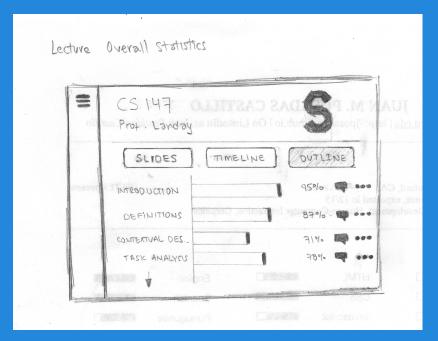
Real-time Lecture Feedback

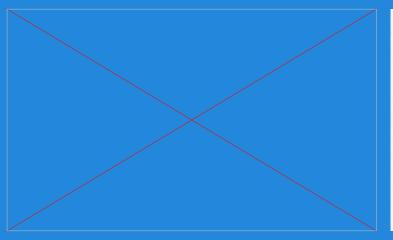
- In-class immediate customer feedback
- Gives students the ability to change lecture dynamics in real time
- Cross-platform implementation

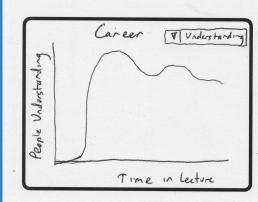


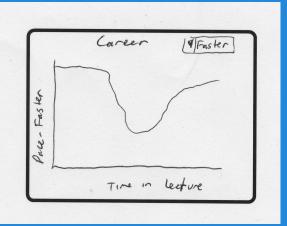


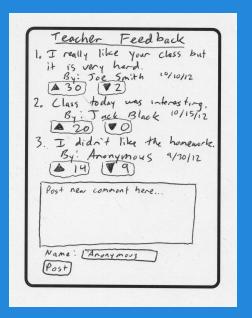


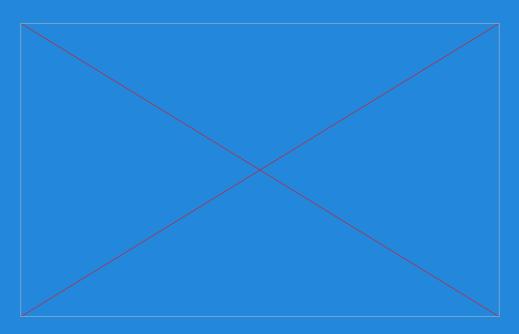


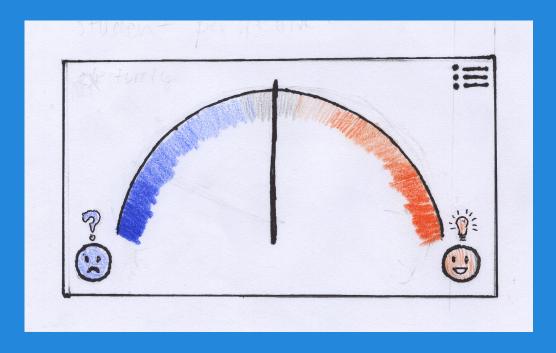


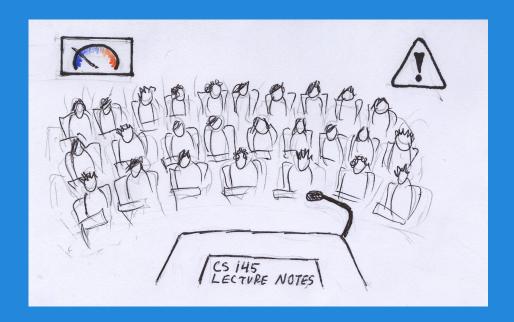


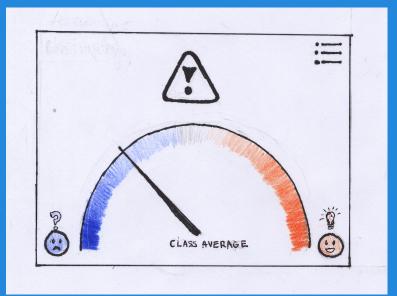












Summary

- Problem: lecture communication
- Solution: real-time feedback system

- Helps students influence their learning environment and clarify points of confusion
- Constructive & actionable for teacher

Thank you.

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