FeedKnack

“Transforming real-time education data into insights for students and teachers”

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Problem and Solution
Contextual Inquiry #1

- software engineer at Google
- uses MOOCs

Irving G.
Contextual Inquiry #2

- freshman at Stanford
- actively participates in lecture

Kyle G.
Contextual Inquiry #3

- Lecturer at Stanford
- uses iClicker questions during class

Cynthia Lee
Major Takeaways

- range in comfort level
- multitasking
- confidence in current feedback system
Task Analysis

- Who?
- Current tasks?
- Desired tasks?
Task Analysis

- How are tasks learned?
- Where?
- Customer and data relationship?
Task Analysis

- Other tools?
- How do users communicate?
- Time constraints
Task Analysis

- How often are tasks performed?
- What happens when things go wrong?
Student Input

Students can ask questions and indicate confusion during lecture.
Improve Lectures

Lecturers can improve classes based on feedback
Pose Questions

Enable lecturers to instantly pose questions
Lecture Feedback w/Data Collection

Goals:
- give immediate and long term feedback both to students and professors during live or online lectures

Application will allow students to:
- ask and answer questions
- indicate any sort of confusion during a lecture
- ultimately improve lectures for both parties
Date: October 8, 2014
Class: PSYCH 30
Today's Topics
- Image formation
- Photoreceptors
- Data compression

Student view

* Students can't see how many students "thumbs up" or "thumbs down" each topic.

Professor view

Professor uploads topics for lecture before class. Students "thumbs up" or "thumbs down" topics as they are being presented based on understanding.

Date: October 8, 2014
Class: PSYCH 30
Today's Topics
- Image formation ✖
  What?! ✖ 7
- Photoreceptors ✖
  What?! ✖ 6
- Data compression ✖

Professor view
Real-Time Question Scanner

Goals:
● help the lecturer actually see when students have questions

Application:
● students have the ability to ask questions with a device, and other students can upvote certain questions
Dots are people.

- Dots are questions, with bigger questions being ones more students in class have.
- X means zoned-out.

Perspective of lecturer:

- What class is this again?
- Is recursion?
Attentiveness Scanner

Goal:
- allow the lecturer to know the students’ engagement level
- incentivize students to be engaged

Application:
- scan the room and determine attentiveness of the students
- provide points to attentive students and deduct points from non-attentive students
Summary

Need
- better communication between lecturer and student

Goals
- improve lectures
- enable student input
- allow lecturers to pose questions
Works Cited

http://images.inmagine.com/400nwm/imagesource/is0266jn0/is0266n3b.jpg
http://www.universitybusiness.com/sites/default/files/field/image/M-Final_TTYSU1461.jpg