Document 1: Design Research and Insights

Problem:

Lack of interaction between students and lecturers during lectures

Observations:

- Lecturers ask students if they understand, but students do not respond
- Very few questions during lectures, yet many anonymous questions on online forum
- Decreasing lecture attendance

After speaking with students and lecturers, we have these user personas:

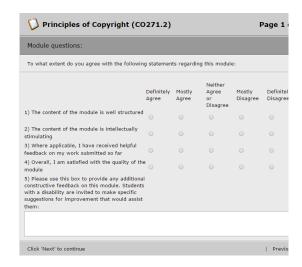
Lecturer:

- Should I spend more time explaining certain parts?
- I can give better answers and discussion to questions during lectures than on the forum

Student:

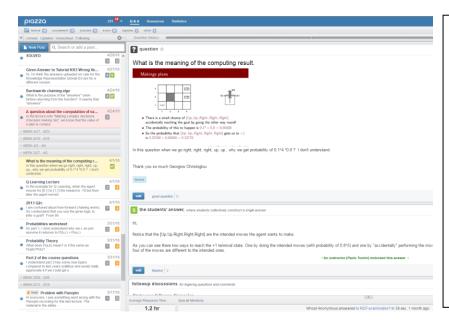
- Asking questions in lecture is embarrassing
- Saying that I don't understand is embarrassing
- I don't understand this lecture, sitting here is a waste of time. Might as well go home!

Existing tools:



End of term survey:

- Feedback only provided after the course finishes, does not allow swift adjustments to be made
- Feedback is not specific



Piazza, online forum:

- Presentation slides are not automatically linked to provide context to questions
- Lecturers prefer answering and having discussions with live audience

Concept based on these problems:

A function that allows lecturer to gauge mood of students

- Students can express if they understand the current slide
- Representation of current class mood shown to the lecturer

A function to ask questions anonymously during the lecture

- Questions linked to specific page of lecturer's slides to provide context
- Lecturer can view and respond during the lecture