

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:

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Module questions:

To what extent do you agree with the following statements regarding this module:

	Definitely Agree	Mostly Agree	Neither Agree or Disagree	Mostly Disagree	Definitely Disagree
1) The content of the module is well structured	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2) The content of the module is intellectually stimulating	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3) Where applicable, I have received helpful feedback on my work submitted so far	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4) Overall, I am satisfied with the quality of the module	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5) Please use this box to provide any additional constructive feedback on this module. Students with a disability are invited to make specific suggestions for improvement that would assist them:					
<input type="text"/>					

Click 'Next' to continue | Previous

End of term survey:

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

The screenshot displays the Piazza web application interface. On the left, a sidebar lists various questions and topics, including 'Backwards chaining algo', 'A question about the computation of va...', 'What is the meaning of the computing...', 'Q Learning Lecture', '2013 Q20', 'Probabilities worksheet', 'Probability Theory', 'Part 2 of the course questions', and 'Problem with Panopto'. The main content area on the right shows a question titled 'What is the meaning of the computing result.' with a 'Makings plans' sub-header. The question includes a 3x3 grid diagram and a small diagram of a robot. The text of the question discusses the probability of reaching a goal by going the other way round. Below the question, there is a section for 'the students' answer' and a 'followup discussions' section.

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