



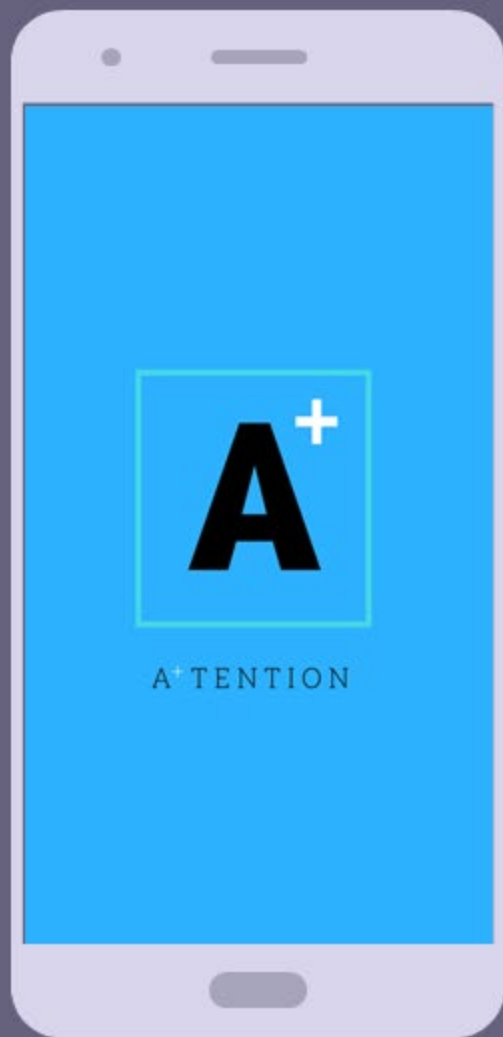
Your
A⁺ Attention
Please!



A+ttention

A Mass Lecture App to
Increase Instructor and
Student Engagement

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Introduction: Large mass lecture courses are pervasive

Introduction

We will discuss:

1. Motivation
2. Relevant work
3. Description of study
4. Description of project
5. Design
6. The future of A+ttention



MOTIVATION

57

1
UNIQUE CONTEXT

2
SHORTCOMINGS

With current technology

3
APP IS NEEDED

Easy to use & Increase positive
student outcomes



RELATED WORK

- Social aspects of course can contribute to learning
- Immediacy and feedback may be missing
- Need to accommodate for missing cues
- Some research on technologies used
 - Focus on discussion and learning
 - Lack of focus on in-class feedback





RQ1: How can an app improve communication in a large classroom setting?



RQ2: How can an app help students provide feedback to instructors during class in a large classroom setting?



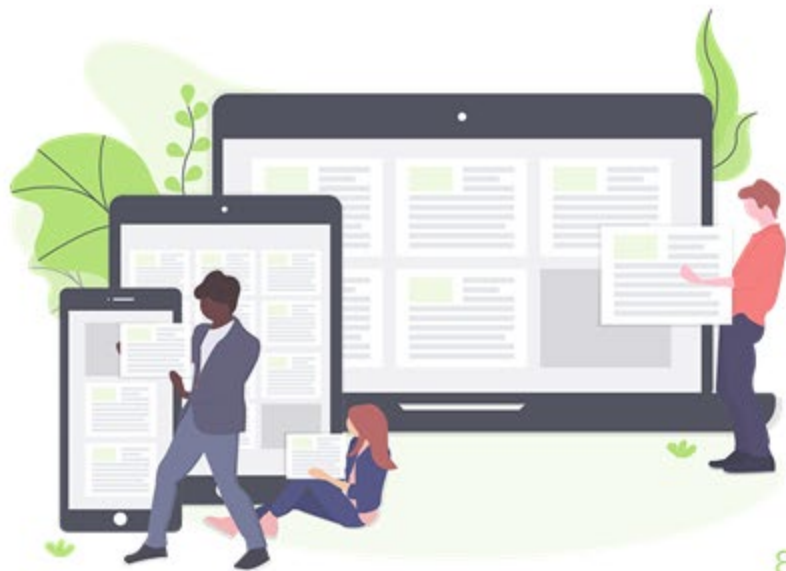
RQ3: How can an app improve student learning in a large classroom setting?

Research Questions

GENERATIVE RESEARCH DESIGN

- Interviews and Observations
- Organize Data
- Second- and third-level affinities

Description of Study



FOUR COMMON THEMES

1. Students should be able to avoid being identified in class
2. Students like to interact with others
3. Students are actively gathering information
4. Students have questions about the class



1. Instructor notifications
2. Slides
3. Comments
4. Flashcard game
5. Classroom seating map

DESIGN IDEAS



PAPER PROTOTYPE





Usability Testing

1
SELECT 4 USE CASES

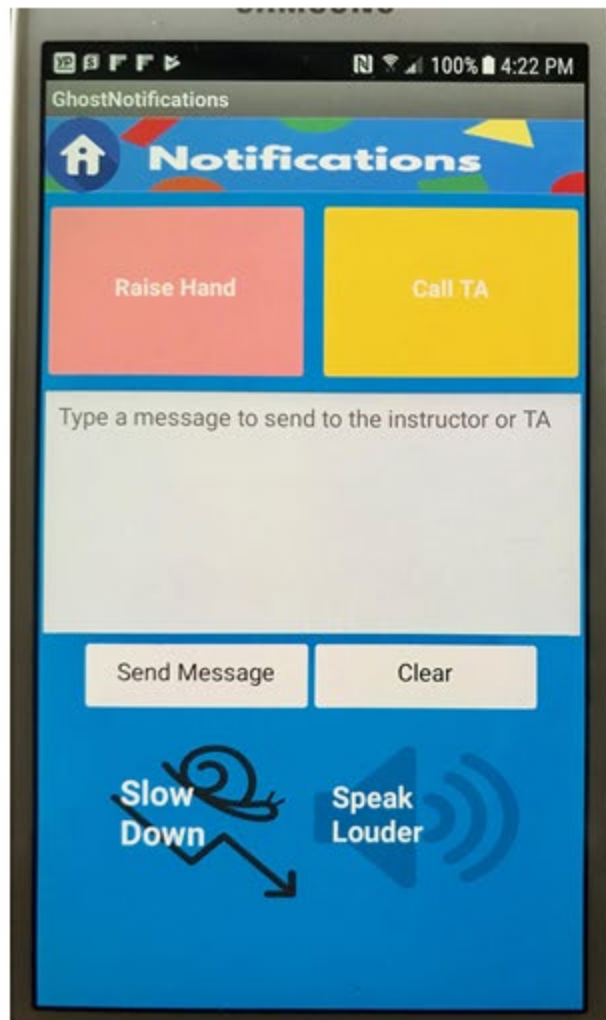
2
SIX TESTERS

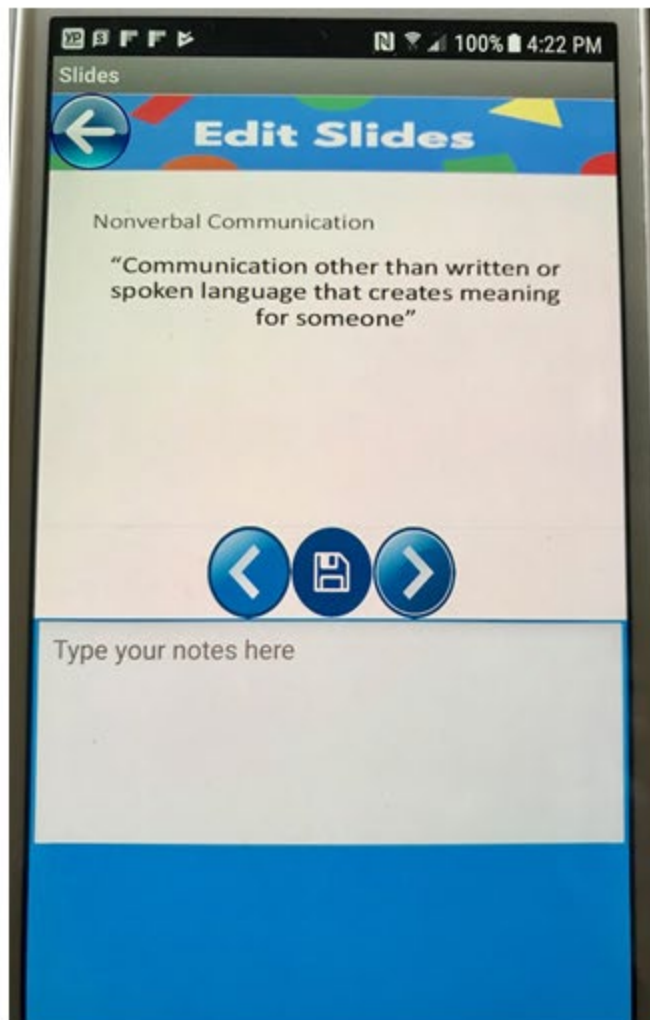
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AREAS TO MODIFY

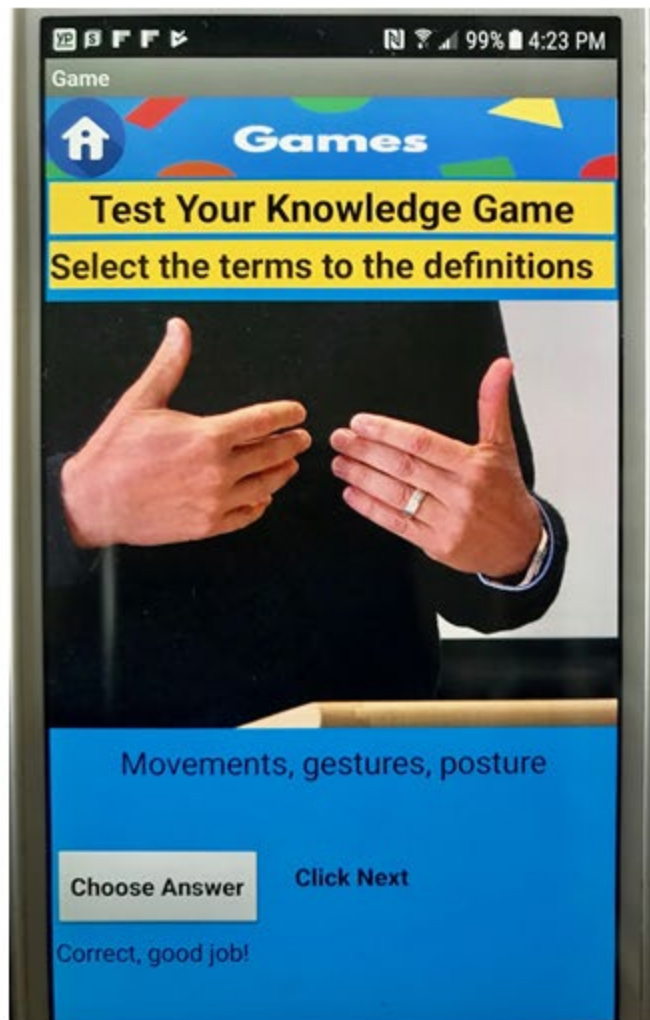


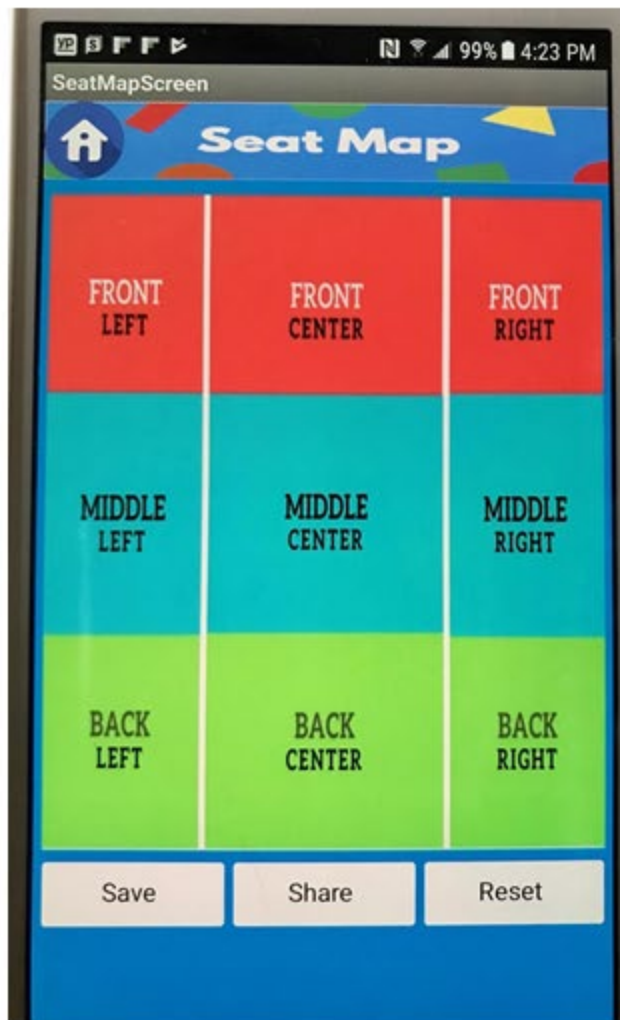
WORKING PROTOTYPE

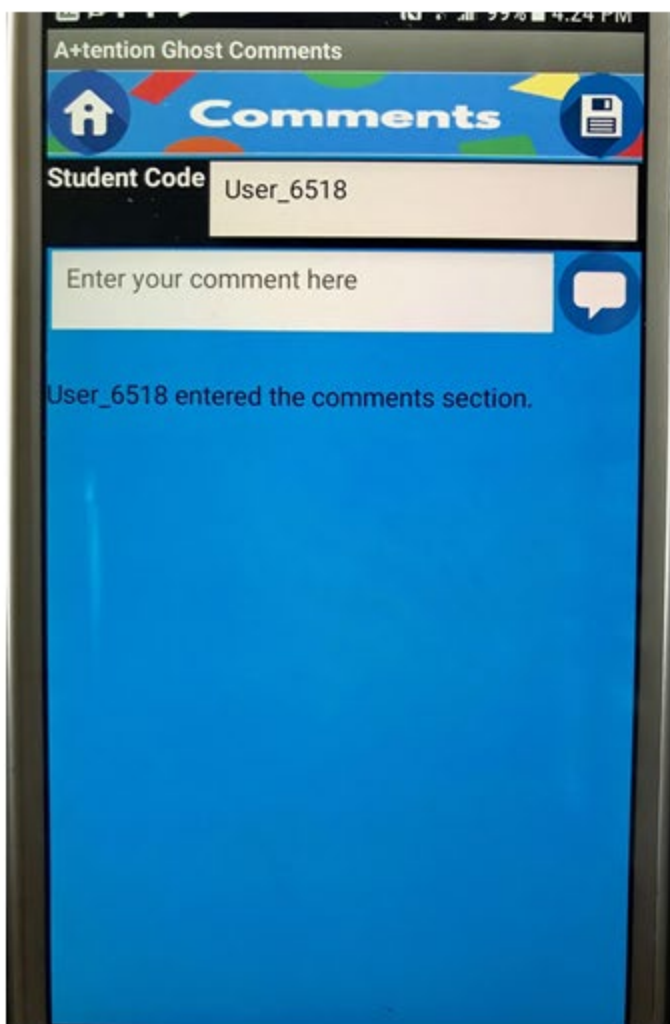






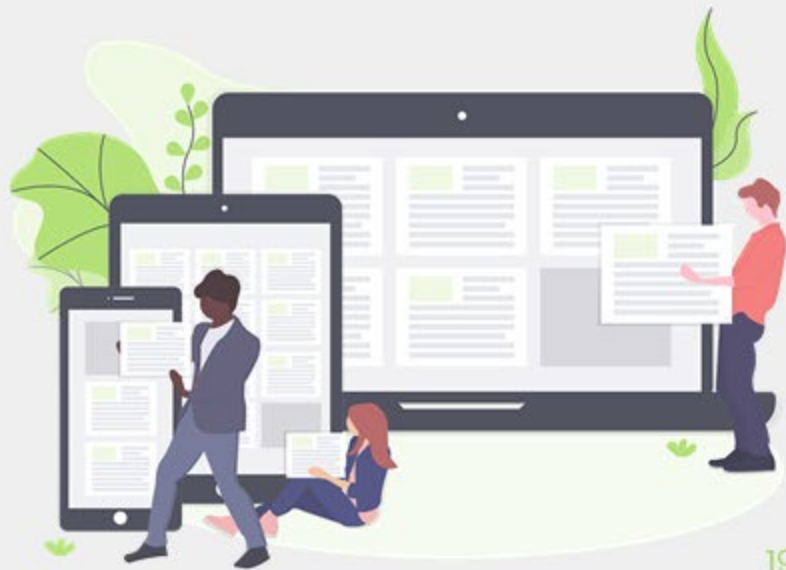






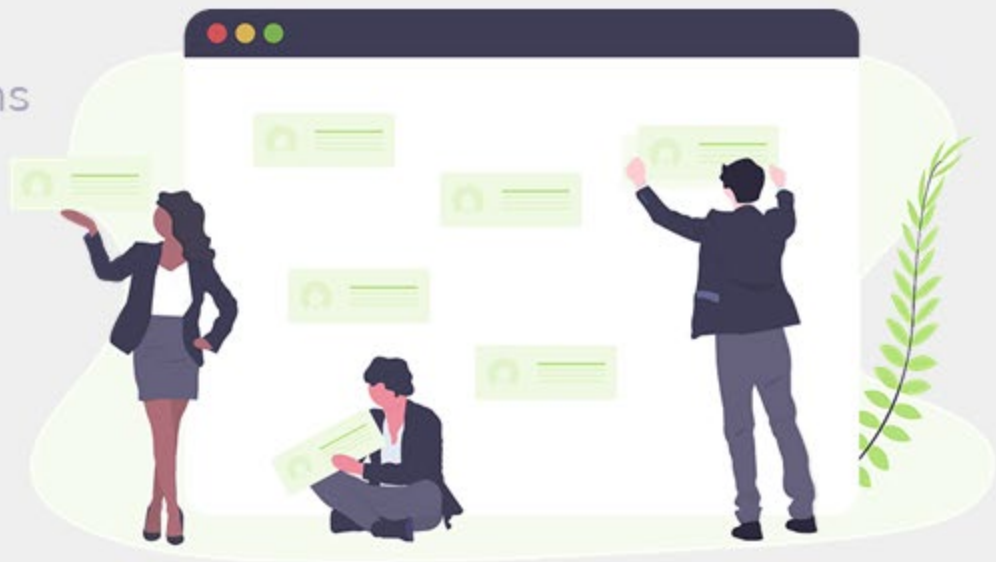
PHASE 1 AND FEEDBACK

- Positive Feedback
- Focus: Refining Features



Future of A+attention

- Refine features
- More usability testing
- Accessibility for multiple platforms
- Polling feature
- Improvements for seat map
- Aesthetic changes
- Use in class





QUESTIONS?

Thank You