



The student data that keeps on giving

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Problem

Teachers face a problem that they start the school year with limited information about the knowledge level of their students. In the remainder of the school year their students' progress is tracked on an ad-hoc basis with quizzes.

Solution

Our application serves to provide a method for teachers to give formative assessments to their students to understand the materials that they already know and what they need to teach.

Overview of talk

1. Design changes
2. Prototype implementation

Tasks

Easy : The teacher manages all quizzes given to students

Medium : The teacher creates custom quizzes for students

Hard : The teacher checks the student's progress

Heuristic Evaluation Results

Categories	# Violations
Level 0	7
Level 1	14
Level 2	7
Level 3	4
Level 4	0
Total	32

Level 3 violations:

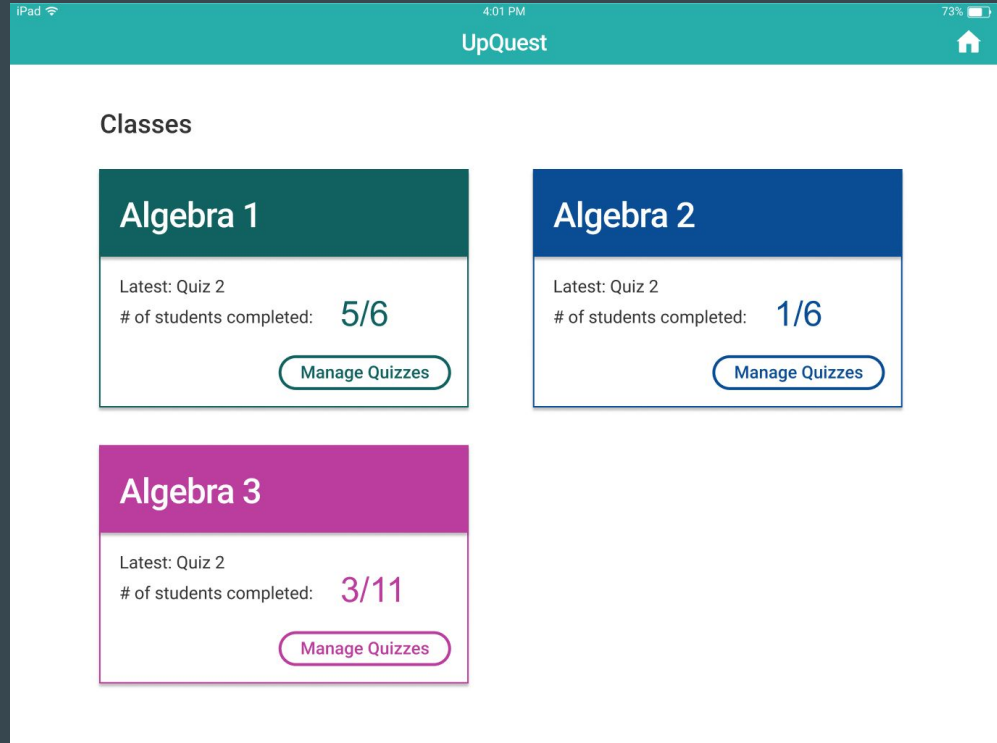
1. Tasks not delineated clearly enough from the beginning
2. Quiz results page hard to decipher
3. Lack of error prevention
4. Confusing shapes and colors used in data visualization

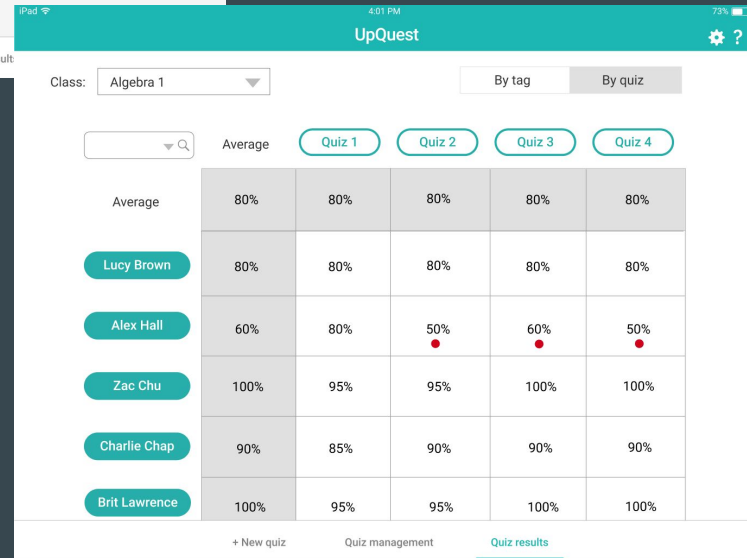
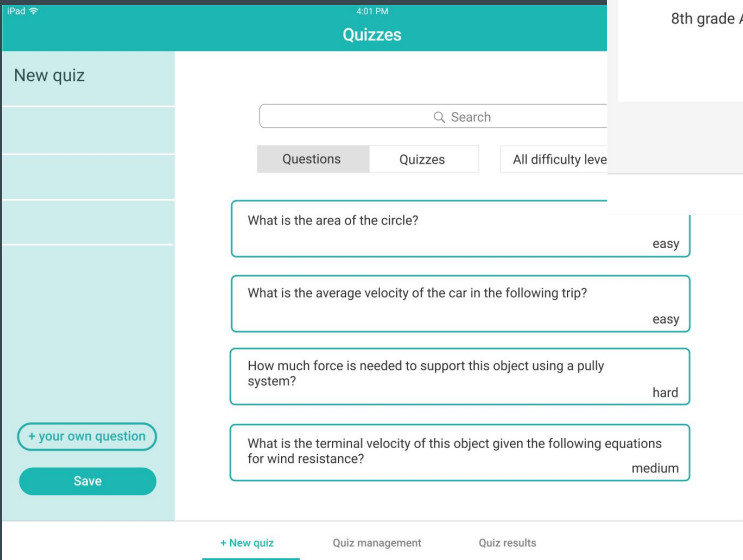
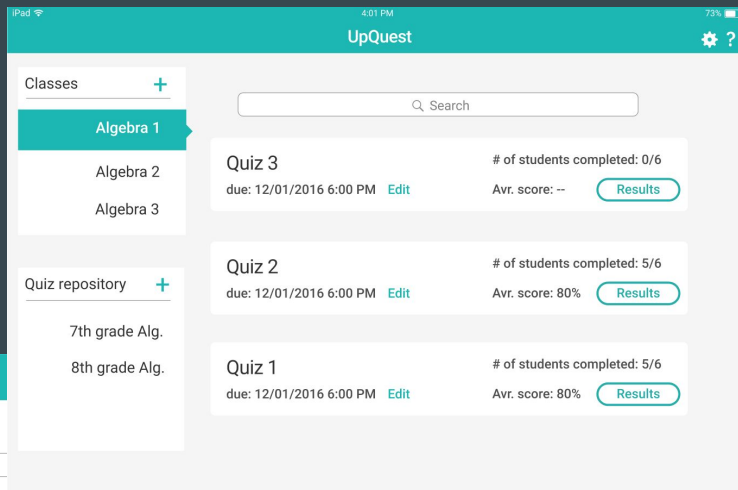
Overview of Revised Design

Violation:

Tasks not delineated clearly enough from the beginning

[H2-1: Visibility of System Status]





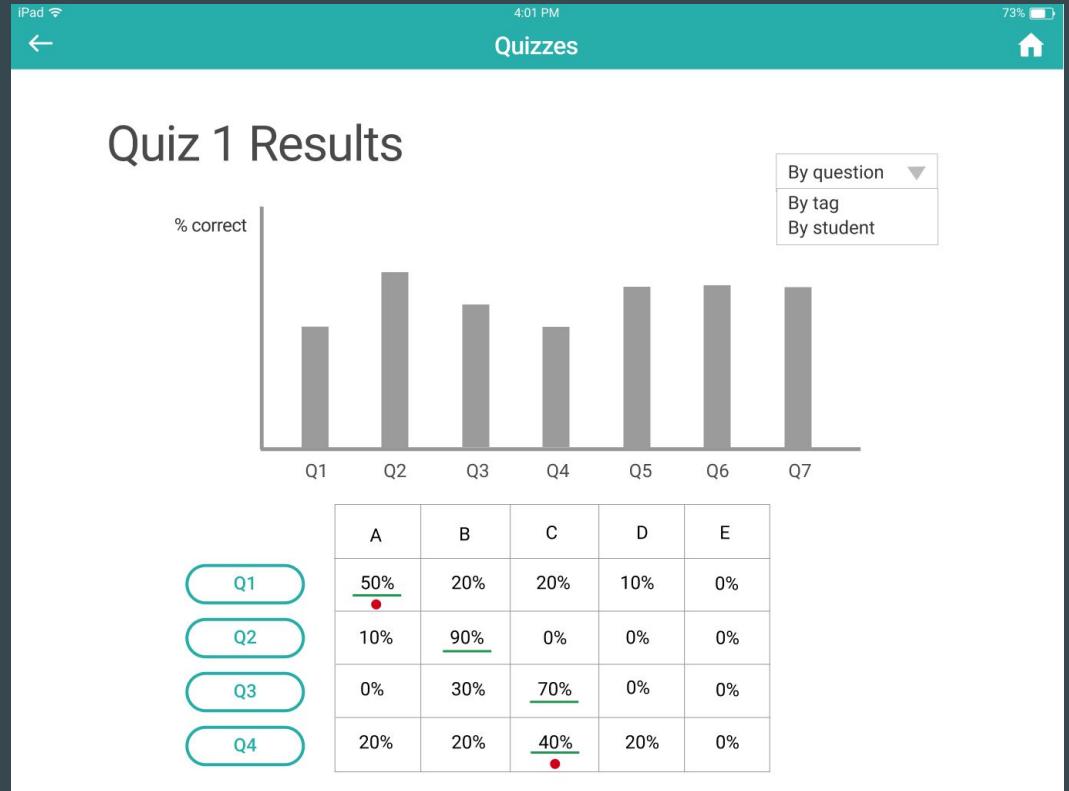
Revision: Navigation bar

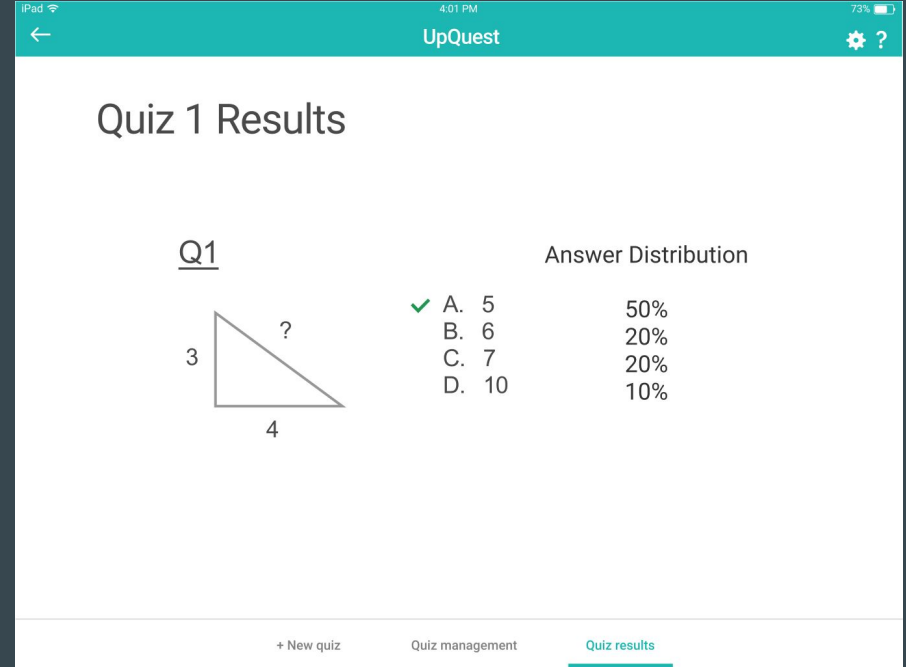
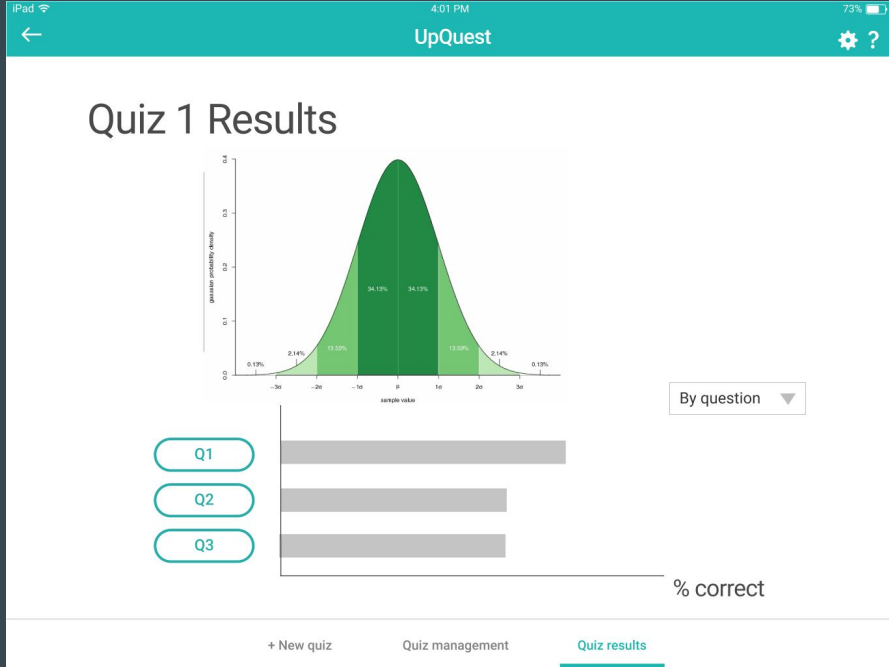
Violation:

Quiz results page hard to decipher

[H2-2: Match between system and the real world]

[H2-8: Aesthetic and Minimalist Design]



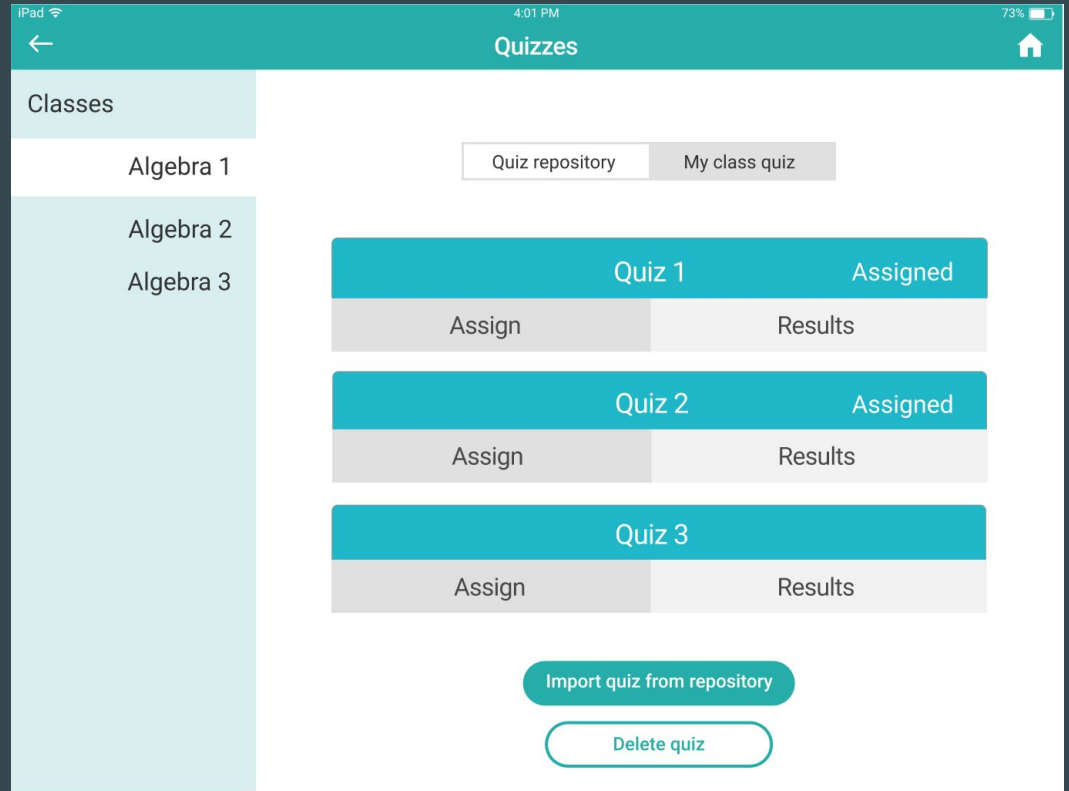


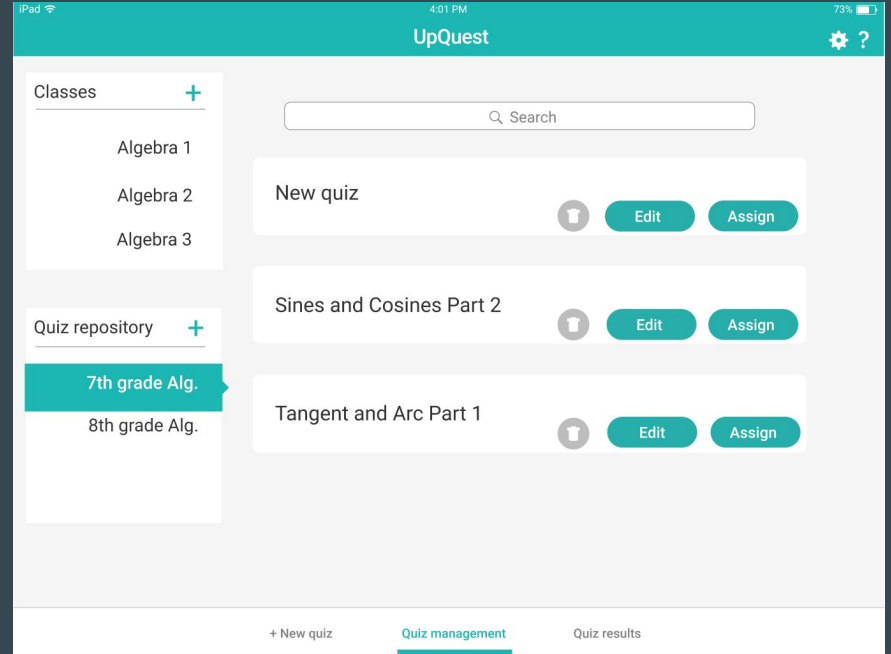
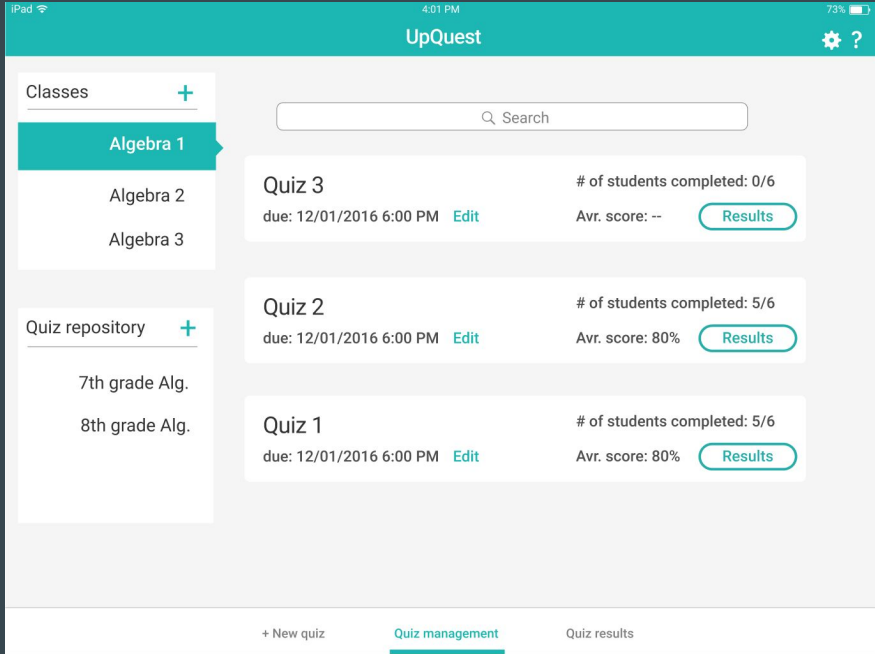
Revision: probability density function; answer distribution showed on a new page

Violation:

No way to edit assigned quiz

[H2-5: Error Prevention]

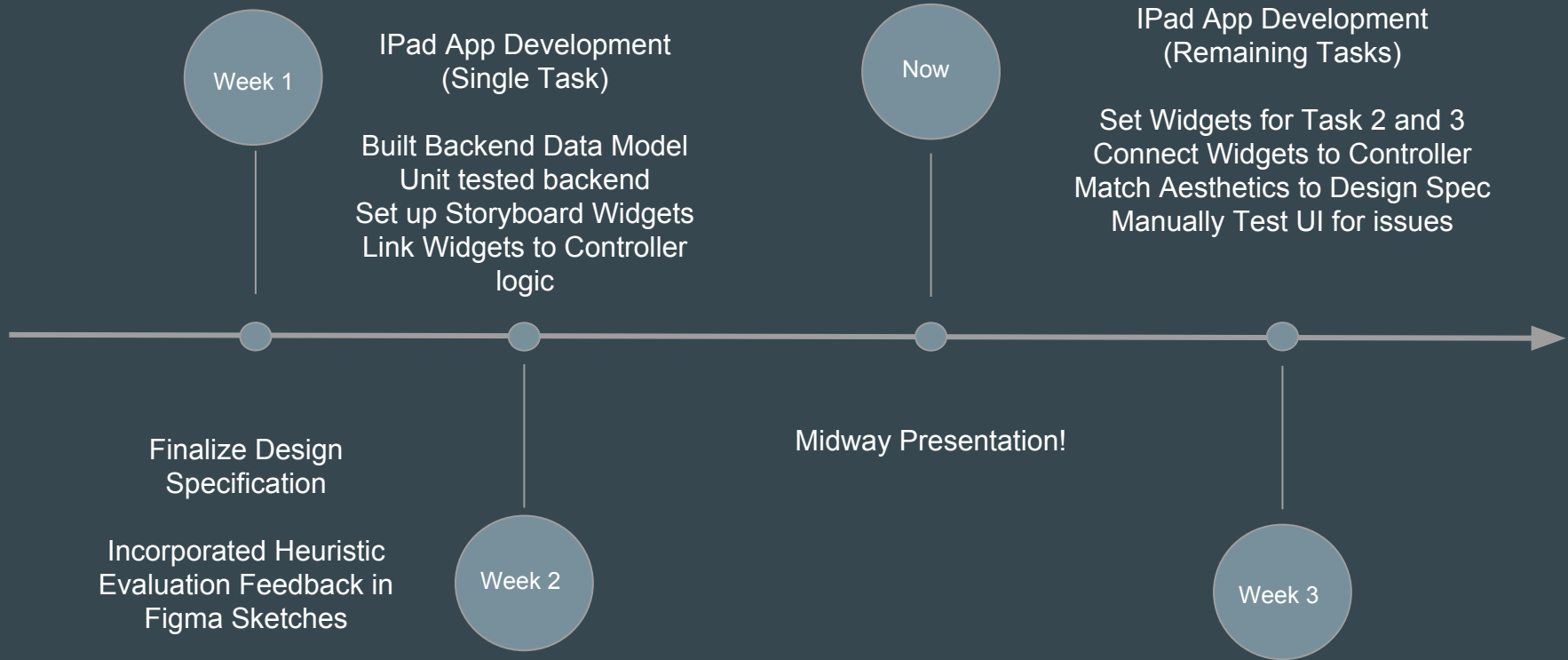




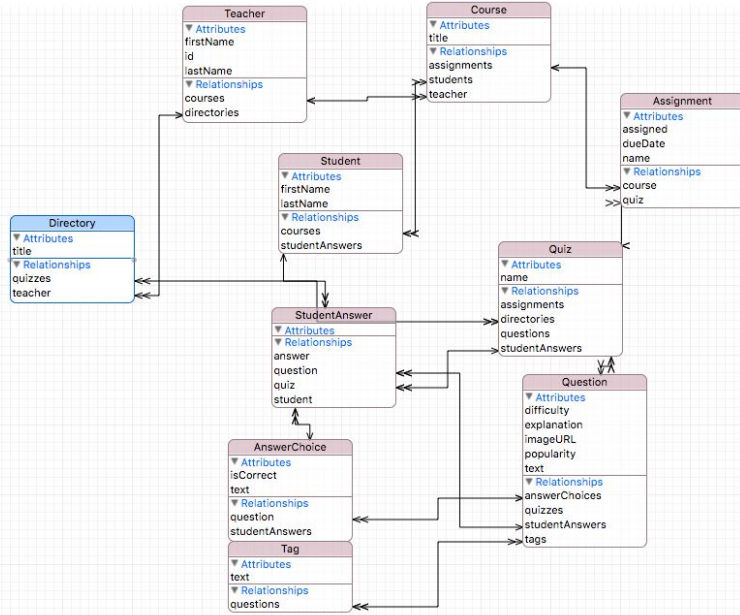
Revision: Edit button for assigned quizzes; assign button moved to repository

Prototype Implementation Status

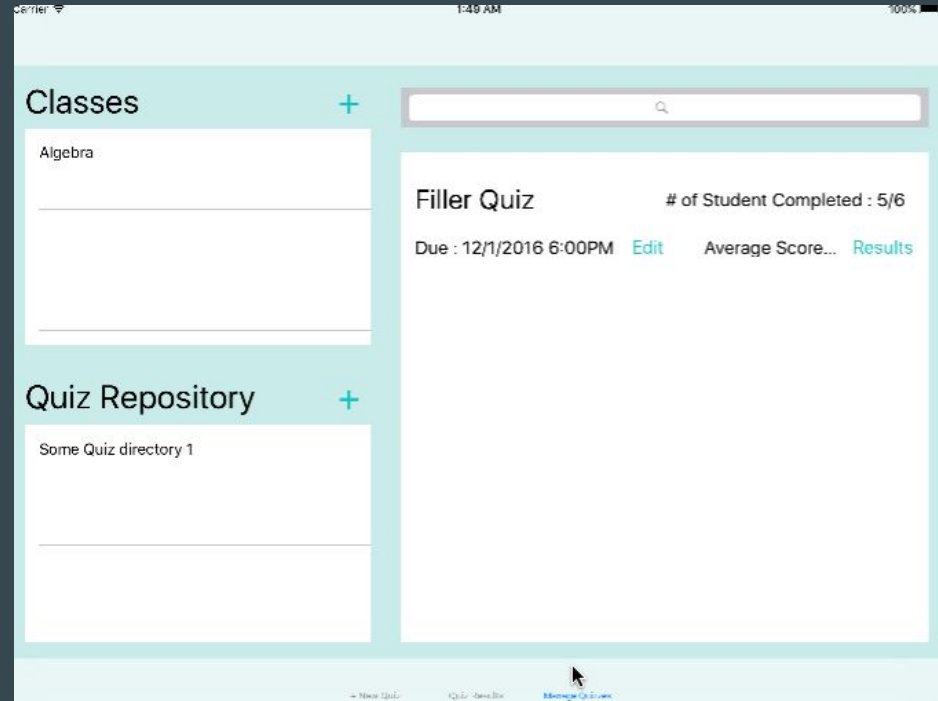
Product Development Timeline



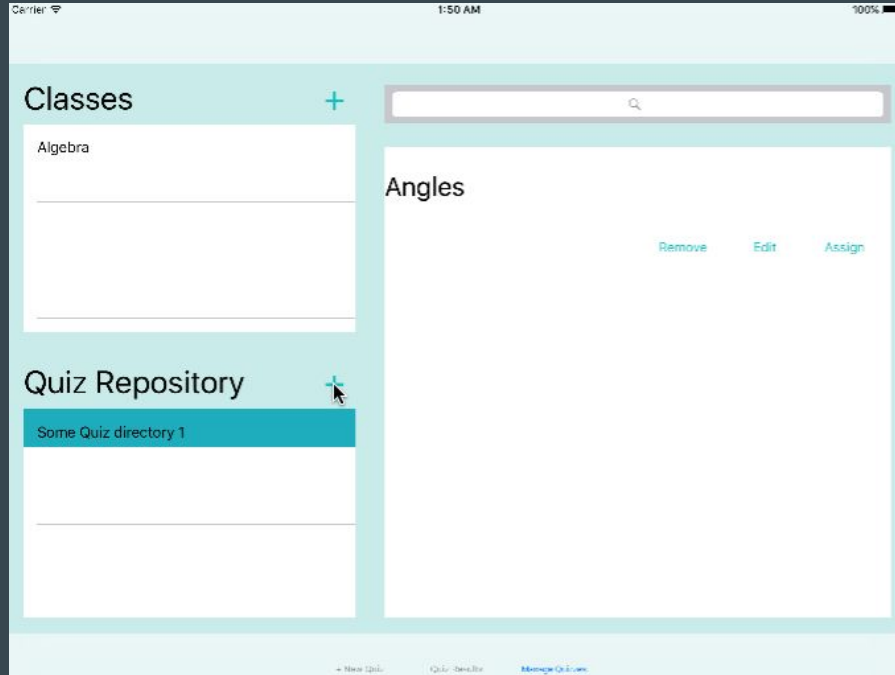
Backend Data Model



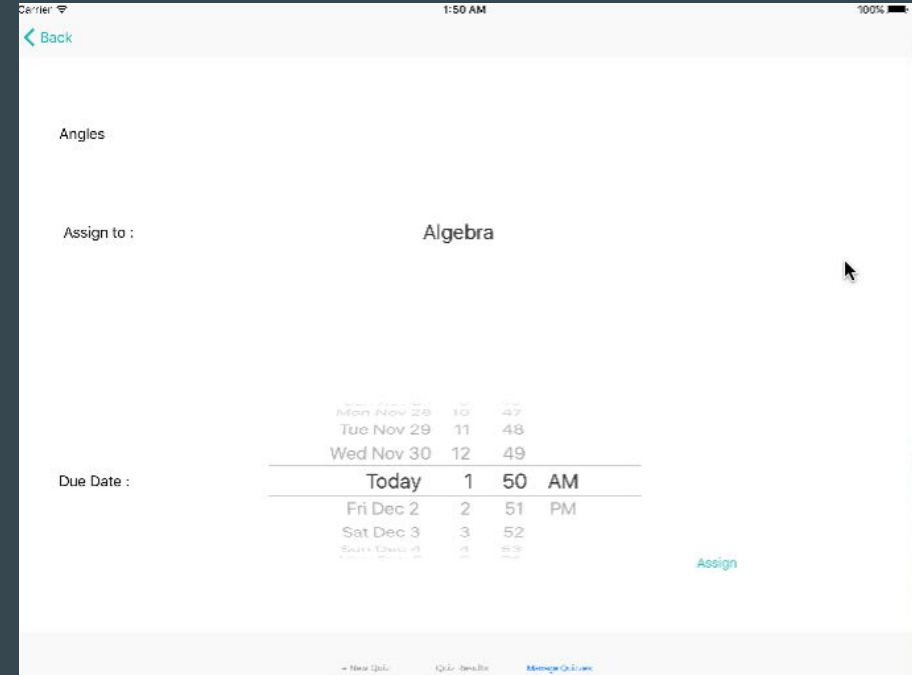
Manage Assignments



Manage Quizzes



Assign Quizzes



Features Not Implemented

- Context Specific Help Menu
- Settings Page from navigation bar
- Creation of new classes

Hard Coded Data

- All data from backend data model
- Current calculation of average scores by quiz
- Query results from search bar

Prototype Demo

Summary

- Completed functionality for task of assigning quizzes to classes
- Moving on to complete remaining two tasks in the next week