

Attendance and Quiz App

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Introduction

This mobile application allows students and teachers to interact in the classroom. Teachers can begin live sessions to take attendance or ask questions to engage students. Students can respond on their smartphones without worrying about costs.

Purpose

This application will replace expensive response card services from Turning technologies by offering a better, free alternative with improved attendance and quiz features. These features include the use of short answer questions and GPS tracking to ensure students are in the classroom.

Methods

Computer Science

The application must utilize Firebase Database and a secure internet connection to create a live session between students and teachers while recording their responses for quizzes and attendance.

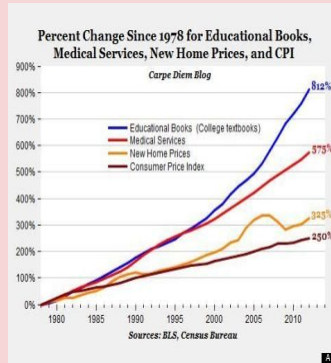


Figure 1: Increasing cost of books and services compared to other expenses (Kingkade)

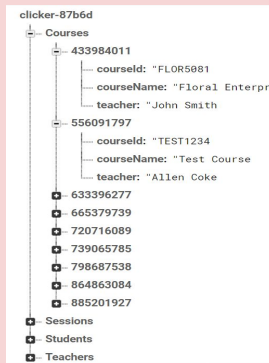


Figure 2: Firebase Database for user data

Results

Users can log in and choose the class they wish to attend. Students and teachers will be then be directed to separate pages. From there, teachers can create questions for their class and start a session for a student to join.

Conclusions

The goal of this app was to create a clicker style interface with the added functionality of user authentication, GPS tracking, and short answer questions. Due to time restrictions and COVID-19, we were only able to provide the short answer question option and to keep the app free.

Acknowledgements:

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Citations:

1) Kingkade, Tyler. "CHART: The INSANE Growth In College Textbook Prices." HuffPost, HuffPost, 7 Dec. 2017, www.huffpost.com/entry/college-textbook-prices-increase_n_2409153.