

## **Team 3**

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## **Problem Statement**

The iClicker system is used in almost any class on Purdue's campus that uses in class quizzes. The system is fairly limited and can be improved upon. Given almost everyone has some kind of internet device with them in class, we have the ability to create a much more versatile system based on an app or web app. We want to create a system that makes it easier to keep track of in-class attendance and quiz grading not only for the students, but the professors that make the quizzes. While there are systems such as HotSeat that some professors use for their classes, we believe we can even improve on their products.

## **Project Objectives**

- Current drawbacks of the iClicker system are that it does not show the question or results on the device, no way of keeping track of past quizzes and their scores, and there is no official way to take attendance with them.
- Make an iClicker type system with smartphones and laptops that includes taking attendance and quizzes in class
- Include a system for professors to schedule quizzes and easily keep track of class scores
- Save questions and quiz scores for students to look back at and use as a study reference.
- Develop ways to prevent students from cheating the system and make sure students are in class when taking quizzes/attendance

## **Stakeholders**

- Users: students and professors with classes that use the iClicker system
- Developers: Justin Hartman, Todd Griffin, Theo Burkhart, Tyler Rex, and Mason Wesolek

## **Project Deliverables**

- A React Native Android/iOS student app that can be used to answers quizzes/mark attendance as well as record and save previous quizzes.
- A React web app that can be used by students who don't have the app/want to use their laptop
- A React web app used by professors to setup classes and schedule/make quizzes
- A Node based backend using GraphQL for all apps to use.