

CSCE 4561

# Clicker Application

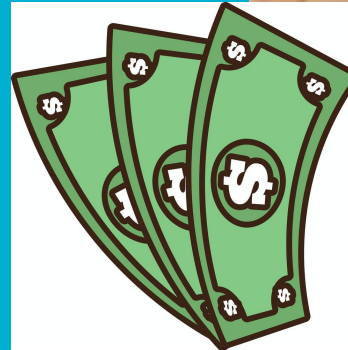
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# Problem

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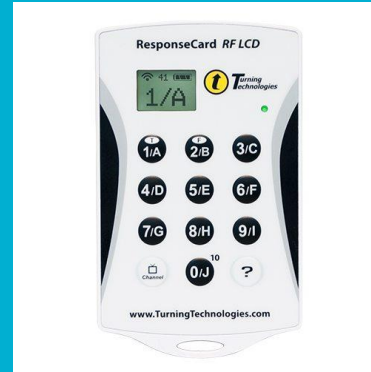
- Professors encourage student engagement in class through the use of clickers
  - Attendance
  - Quizzes
- Clickers cost \$82.99
- Clickers have very basic functionality
  - Multiple choice
  - Fixed Polls
- Students forget to bring clickers to class
- Academic Integrity
  - Students checking in for one another



# Related Technology

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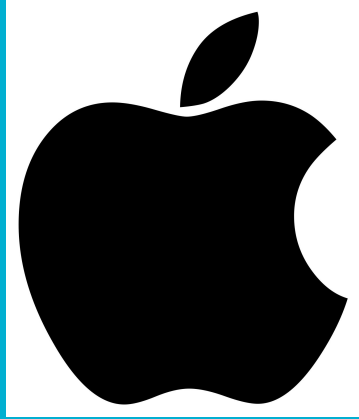
- TurningPoint Technologies
  - Used at the UofA
- iClicker
  - GPS tracking
  - Short answer responses
- The main reason ours will be different
  - It will be free



# Facilities and Equipment

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- No facilities required
- Attendance/answer inputs are stored in the application
- Required equipment
  - Smartphone
- Required accesses
  - Internet
  - App store



# Requirements

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- Functionality for both teachers and students to sign up
- Instructors should be able to create classes and students should be able to register
- Instructors should be able to create questions before class or create questions on the go and students should have the capability to answer those questions
- Instructors must be able to see statistics regarding students' attendance and question grades and students should be able to view their past attendance and grades
- An easy to use and minimal user interface

# Technology used and Architecture

1. Firebase Database
2. JavaScript
3. React Native
4. Google Play
5. Apple App store

