

# **Bluetooth Based Attendance Checking Software**

Team 35

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## **Problem Statement**

Attendance taking in a college lecture hall is no simple task, there is still the use of attendance sheets and even roll call. While some of the classes use I-clickers, there are two issues: first, it's confusing for non-technical instructors to use; second, some might only want to take attendance instead of quizzes. We provide a bluetooth device-based software to take attendance based on students' devices' bluetooths.

## **Project Objectives**

1. Open USB device to scan for bluetooth signals.
2. Match the bluetooth code with students information (name or login).
3. Scan in preset intervals to ensure proper attendance.
4. Process the information and generate an attendance report.
5. Create simple, automated and effective attendance checking system.

## **Stakeholders**

Users: Instructors

Developers: Justin Boudreau, Michael Enright, Moon Sun Hwang, Shulin Ye

Project Owners: Justin Boudreau, Michael Enright, Moon Sun Hwang, Shulin Ye

Project Managers: Justin Boudreau ,Shulin Ye

## **Deliverables**

1. Scanner for bluetooth devices.
2. Software that can store and process students' information.
3. Periodically check the student's presence during the class automatically.
4. Software to match the devices to students.
5. Procedures to generate the attendance report.
6. If time permits:
  - Handle multiple devices per student or handle exceptions.
  - Create student app for alternate attendance login