## Release Plan

**Product Name:** All Aboard Attendance
**Team Name:** The Bolts
**Release Name:** 1.0
**Release Date:** July 24, 2019
**Revision:** 1
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### High Level Goals

1. Mark a student present after they have entered the information of other nearby attending students
2. Have all attendance networks securely stored and easily accessed
3. Generate visualizations and analytics from stored attendance networks
4. Efficient procedure, both in terms of user experience and computation
5. Have attendance dishonesty deterrents in place

### User Stories For Release

- As a student, I want to scan a projected QR code so that I can quickly access the attendance webpage and log in.
- As a student, I want to exchange temporary ID with other students in attendance so that I can be marked present.
- As a researcher for plagiarism (or any intervention), I want access to seating network data to correlate moss data.
- As a researcher for plagiarism (or any intervention), I want a clear visualization of the data so that I can easily get a grasp of it myself and easily share with others.
- As a researcher for plagiarism (or any intervention), I want to look up seating information by student so I can make observations on their behavior over multiple terms and classes.
- As a teacher, I want to see who's sitting next to another person to see if they're copying off each other.
- As a teacher, I want to limit the time students can sign in so that it is harder for people to come late or sign in remotely.
- As a teacher, I want to be able to be able to search for individual sessions by term so that I can easily find the attendance information I am looking for.
- As a teacher, I want to press a button and have students easily and quickly sign in so that I have more time to lecture and can potentially repeat the process as my needs.
- As a faculty member, I want data visualizations so I can quickly evaluate the attendance statistics across multiple courses

**Sprint 1:** 07/01 - 07/07

- **Spike:** Database/django framework research
- **Spike:** Keygen/ QR code research
- **[3]** As a student, I want to scan a projected QR code so that I can quickly access a session attendance webpage and login.
- **[3]** As a student, I want to exchange session-specific ID with nearby students so that I can be marked present.
- **[3]** As an instructor, I want to be able to host a unique attendance session for each lecture so that I can track attendance throughout the quarter.
- **[2]** As an instructor, I want a simple list of all students marked present for a session.

**Sprint 2:** 07/08 - 07/14
- **Spike:** Scheduling, availability limits
- **Spike:** Acquiring and setting up a domain for hosting
- **[5]** As an instructor, I want attendance to be compiled into a full graph showing students as nodes and student-student connections as edges
- **[5]** As an instructor or student, I want an adequate interface

**Sprint 3:** 07/15 - 07/21
- **[8]** As an instructor or researcher, I want a variety of data visualization tools so that I can more closely examine seating habits and trends
- **[5]** As an instructor or student, I want the attendance taking process to be quick and efficient
- **[2]** As an instructor, I want to be able to keep track of when students are arriving in class so that I can filter out students who arrive late


**Product Backlog:** (for future releases and non-ordered)
- **[21]** As a research for plagiarism (or any intervention), I want seating network data to correlate with MOSS data
- **[5]** As a teacher, I want to be able to be able to search for individual sessions by term so that I can easily find the attendance information I am looking for.
- **[5]** As a researcher for plagiarism (or any intervention), I want to look up seating information by student so I can make observations on their behavior over multiple terms and classes.
- **[13]** As a faculty member, I want to be able to lookup specific attendance statistics so I can examine the attendance trends for certain courses and professors.
- **[13]** As a faculty member at UCSC, I want to have data stored securely on the UCSC unix timeshare so I can easily access it
- **[8]** As a student, I want my attendance history encrypted so that I can feel comfortable having my attendance habits tracked