

Roll Call Project Idea Document

The idea:

Core parts of the student attendance system should:

- Let teachers login
and create modules of subjects
that students can be assigned to.
- Display an attendance code on the teacher's application or webpage.
- Let students login and check in with the attendance code within a specified amount of time.

Statistics part of the system should:

- Let teachers pull up attendance records of students, both for single students and for entire subjects/modules.
- Let students see their own attendance record.

Technology ideas:

- Postgres Docker Database for all the students, teachers, lessons and schedule records.
- Procedures for most queries.
- Perhaps materialized views.
- The generated attendance code could be an expression of the date and some random number generation.