1. User Requirements:
2. User must be able to enter their name and select class name, class time/date, class location
3. User must be able to press a submission button after entering all information
4. User must be able to have their information validated by a database to confirm they are in the class location
5. User must be able to re-enter information when any information is invalid
6. User must be able to see a confirmation being confirmed in the correct location
7. User must be able to have their confirmed entry added to the attendance database for the professor to check
8. Professor must be able to check the attendance for their class with a similar data entry form

2. System requirements

1. System must be able to show a choice of entering information or checking attendance
2. System must be able to hold entry data from user
3. System must have drop down boxes with the class name, class time/date, class location
4. System must be able to take the location of the user and compare it with the location of the classroom selected
5. System must be able to make a new data entry in the database
6. System must be able to return a list of attendance for each class each date for viewing by the professor

3. Risk Analysis

1. Professor is able to check the attendance but there is too much data to show on the screen.

**Solution:** make the data available on a scrolling screen with numbered student for the professor to track.

1. System makes a new data entry with an incorrect or missing name. Risk is missed attendance.

**Solution:** do not validate empty name box.

**Hard solution:** compare name to student name database to confirm that the student is in the class.

1. System is unable to take the location of the user.

**Solution:** make the user agree to the use of location while the app is open before they can use the app.