IST256 Polling Project

# Overview

IST256 is a large group class with over 150 students. In a class this size it is difficult to keep students engaged. Prof. Fudge uses polling software <https://www.participoll.com/> to accomplish this task, but the software lacks analytics and a means to identify whether an individual student completed the poll. As a result Prof Fudge would like the IST659 students to create a polling application he can use in his course.

## Requirements

1. Students must authenticate (be identified) while using the polling app. Note: PowerApps does this for you.
2. The IST256 course is made up of class sessions. Each session is a class where students meet, for example, and has a name, e.g. Week 1 lecture, or week 10 lecture, start time and end time for the class session.
3. Within a session, there are 1 or more poll instances. For example, in one class session on loops, there might be 6 different polls.
4. An instructor can easily open a poll for student responses. Only 1 poll can be open at a time. Every time a poll is opened a new poll instance is created.
5. Each poll has 0 or more student submissions. All submissions are multiple choice with 4 values of A,B,C or D.
6. When a student submits a poll, the student email, date time stamp, poll instance and class session should be added to a logging table so that analytics can be run over the table.
7. The student should see feedback when they submit a poll (i.e. You selected “B” for example)
8. The instructor should be able to display a histogram of poll responses i.e. counts of A, B, C, or D. for the current open poll. When this is refreshed, the poll response updates.
9. Students can only respond to a poll when it has been opened by the instructor. The A,B,C,D buttons should be disabled when there is not an open poll.
10. There should be an instructor report which lists, for a selected session, each student’s participation rate, for example if there we 5 polls in the session and a student response to 4, her participation rate would be 80%. Also the report should show individual responses so the instructor can see if the student was late to class (missed the polls in the beginning) or stopped participating.
11. There should be a report which allows an instructor to select a student and displays that student participation across sessions.
12. The instructor should have the means to reset the database at the end of the semester, archiving the instances and poll responses. The sessions can remain.
13. To reiterate the student view will show only the student’s login name and the response buttons A,B,C,D. The buttons are enabled only when there is an active poll.
14. There should also be a way for students to view their history of participation scores for all sessions. For example, Week 1 85% Week 2 100%. If you select a score you see the individual polls.
15. The instructor view should show a list of sessions (which can be edited).
16. For a selected session there should be buttons to open and close the poll along with a list of polls in that session, which should display a count of responses. An instructor can delete a poll session which was opened by mistake.