# EvalEvolved

**Course Number:**  CS-225
**Date Created:**  3/9/2017
**Developers:**  Bilal Ashiq, Kireh Wright

**Abstract**

This solution is designed to enable an educational institution to efficiently distribute, complete, and analyze course evaluation surveys. The front end is split into four zones of permission: the dean (highest permissions), the department chair, the professor, and the student(lowest permissions).
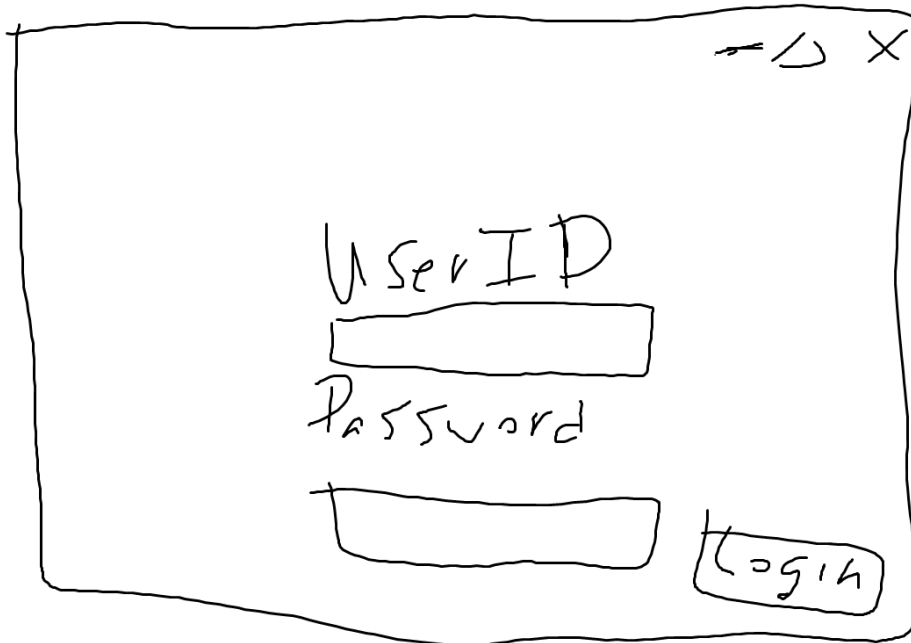
**Background**

Course evaluations provide a valuable compass for campus leadership because the success of any educational institution lies in the success of its student body. Efficiently and effectively creating and analyzing course evaluations will allow faculty to gauge which aspects of their curriculum and/or teaching style works well versus what students may struggle with. Capturing and analyzing this data properly can make year-over-year improvements in school administration.
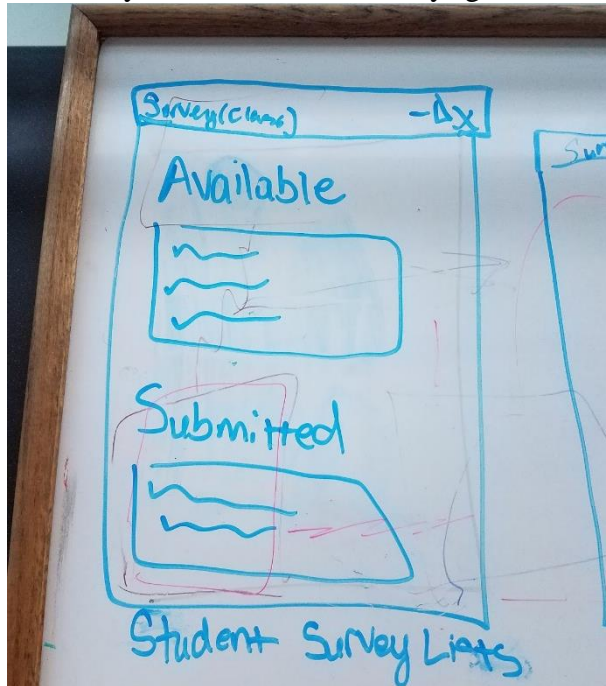
When the user opens up the application they will be prompted with a login screen. Once a successful ID and password is given, the user will be prompted to the next appropriate screen. Multiple students will be allowed to take the evaluations at once. Once the survey is completed the data will be passed to the database via JSON format. If a user does not complete a survey, it will not be saved. All the questions and results will be stored in the database with the appropriate tables. The only stipulation is only one faculty can be logged in at a time. An administrator (Dean or Department Chair) will have the ability to add new evaluations. With the course evaluation, the server side will be multi-threaded.
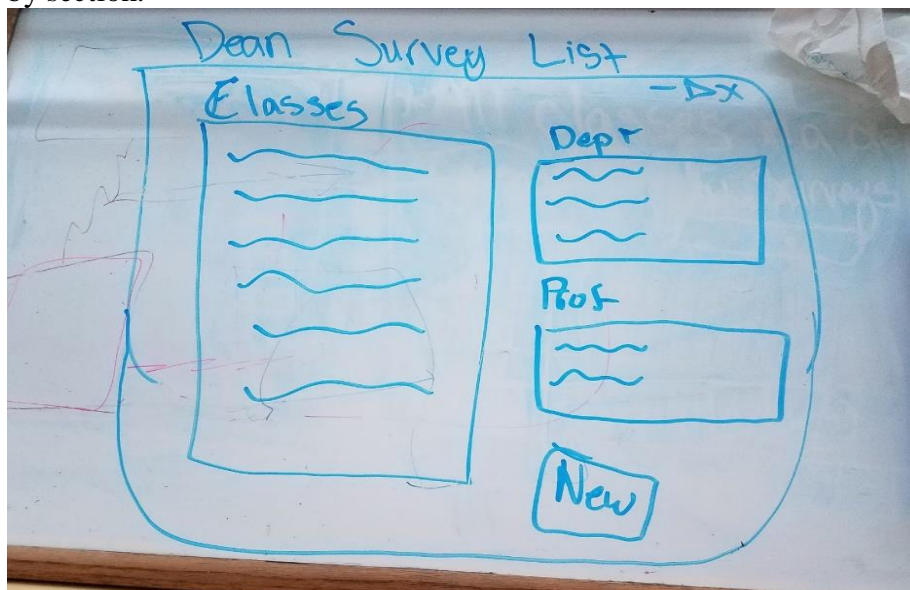
**Front End GUI**

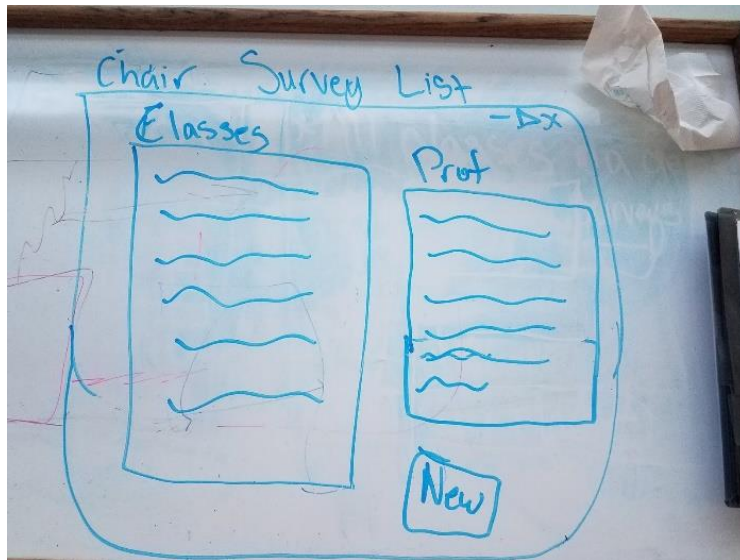Screen that will be loaded when app opens.

This is the student view of the main menu. Note that students can see separate groups of surveys that they may take and surveys that they have completed and submitted. Surveys are ordered by the course code to which they correspond. In all views, each survey label is a link to the proper survey created for that class. For students, active surveys will allow them to complete and submit the survey while submitted surveys generate a completion stamp and cannot be taken again.
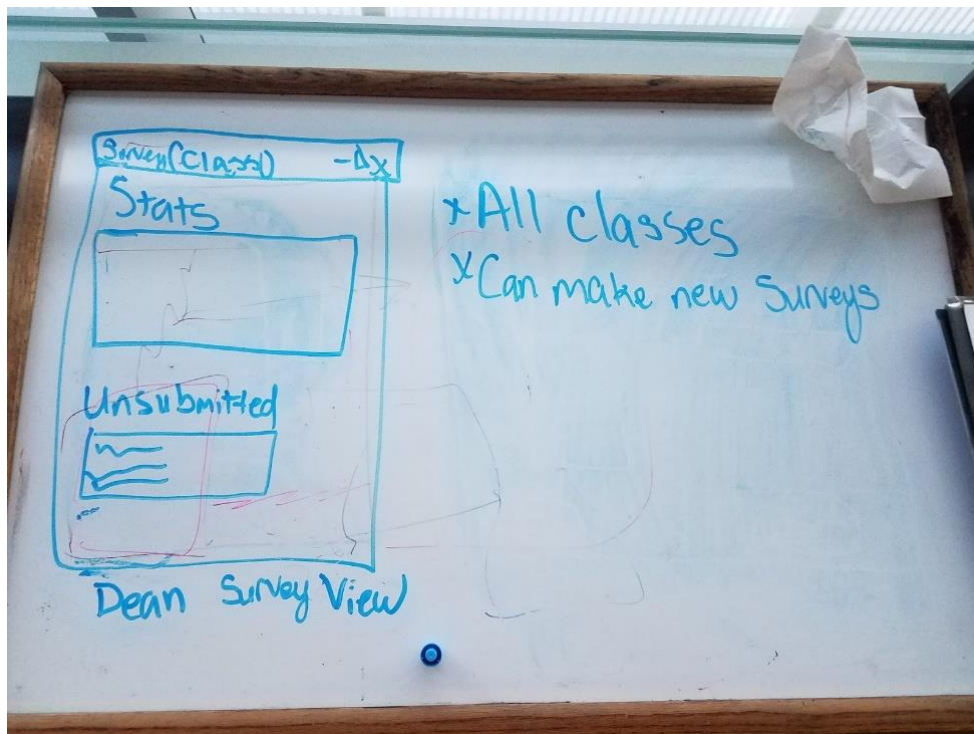


When deans sign in, they can choose what class evaluations they would like to view. By choosing from the list of departments and professors, the dean may filter the list of classes. They also may add courses for any department. In this view, all classes are listed alphanumerically and by section.
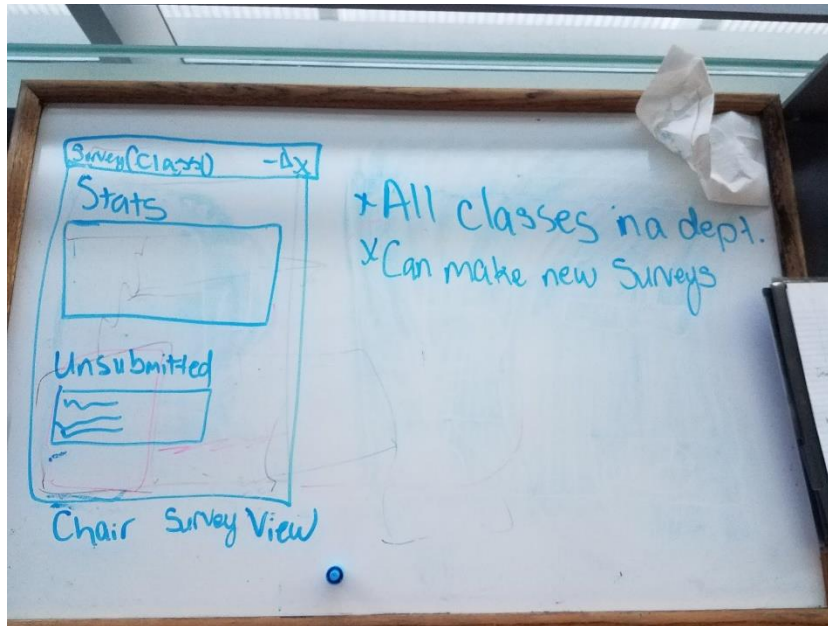
Similar to the dean's survey list view, the department chair can see and filter surveys for multiple professors, albeit only in his/her department. There is also the option to create a new survey, which will be explained further in the following slides.
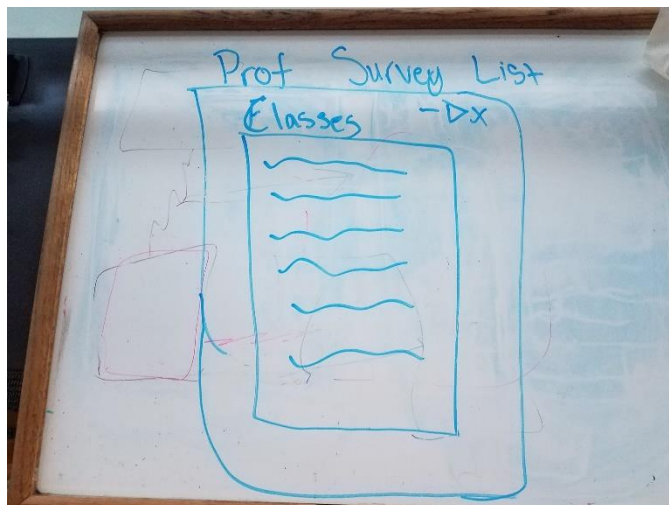


Dean can view statistics on evaluations and submitted surveys. They may view evaluations from all departments. For any specific survey, it will show the answer statistics of applicable questions as well as students who have yet to submit the survey.
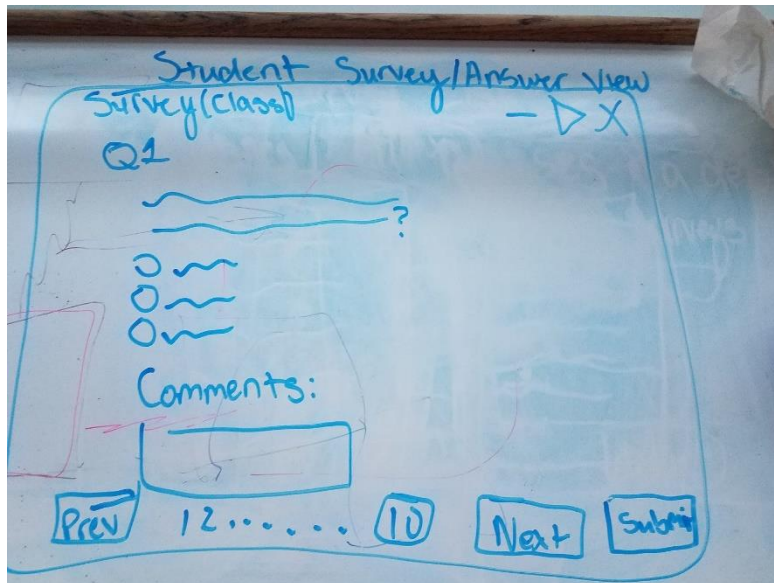
The view if a department chair logs in. This is a view for an individual class. They may view evaluations only from their department.
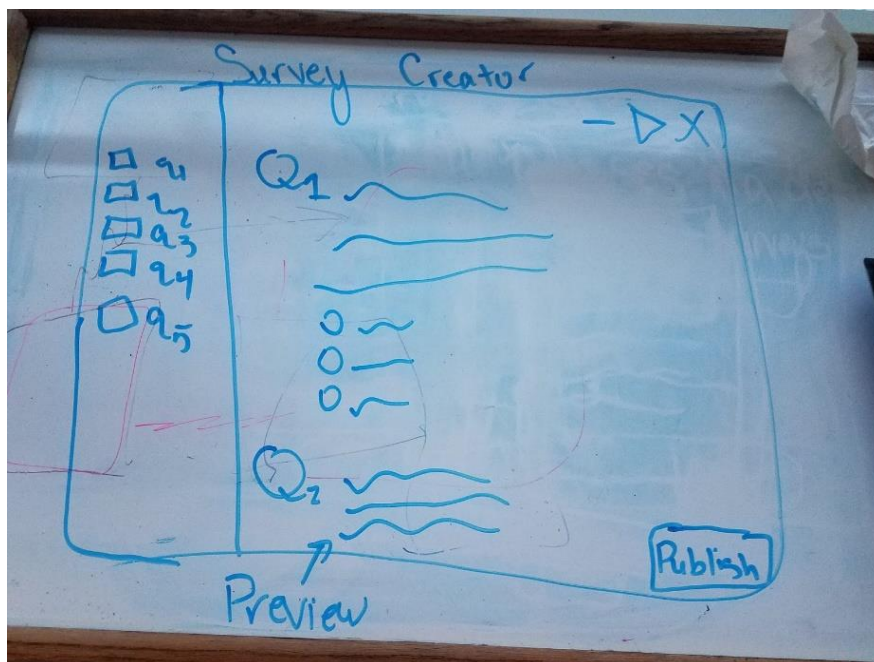


Professors will only be able to see the evaluations from the courses they taught. They cannot add or edit a survey.
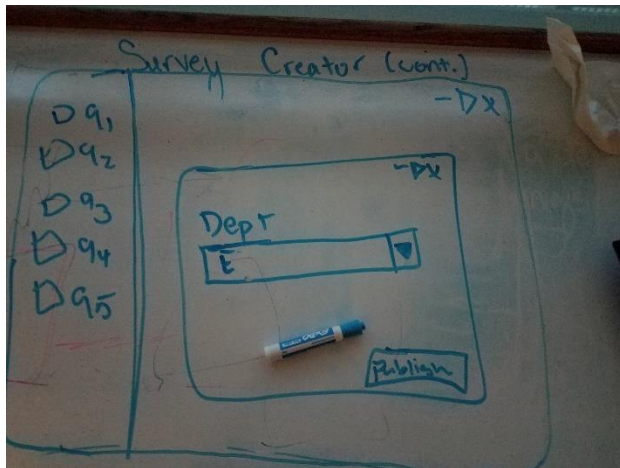
When a student goes to fill out an eval this is how the window will appear. Different buttons will be used for different types of questions. A comment box will also be there if the student has something they would like to expand on.
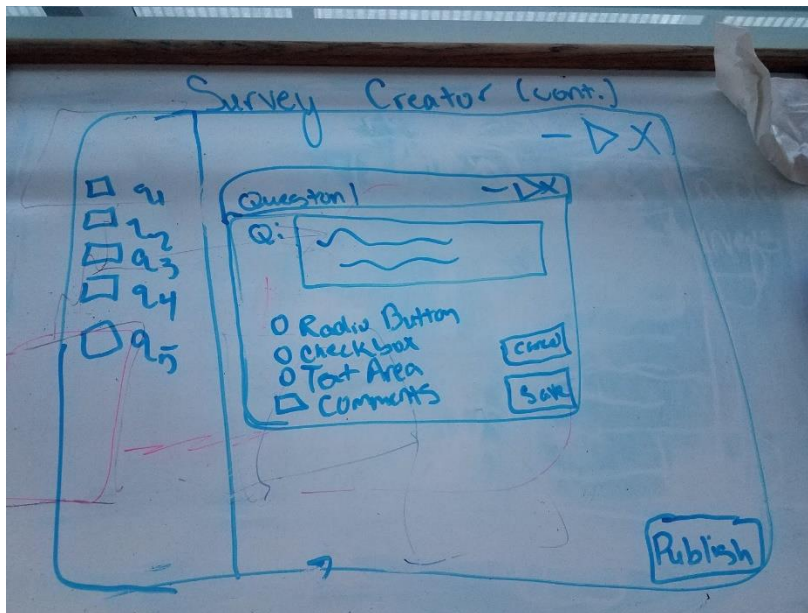


This view will show an outline of the questions. If something needs to be edited, click on the question. To delete a question there will be a delete button on the bottom left.

Before a survey can be created or modified, they must choose what eval they would like to modify. This screen will walk them through to the right eval.



With this screen the user will be able to edit the question and choose what kind of buttons will be appropriate for the question. If canceled is pressed no changes will be saved.

**Control Flow**

With the images above we generally have a good idea of what we will need to implement. There will be two different modes, one is taking a eval and the other is viewing/modding the evals. When the user takes a quiz they will naturally be guided to the next question until complete. If there is an answered question, the survey will not allow it be submitted until all the questions are answered. If they exit at anytime during the eval, the results will not be saved.

On the other side, faculty(administrators) will have the ability to view according evaluation results displayed in some sort of visual representation with meaning. They will also have the ability to assign an eval for a course that is ready. If they like, they will be able to create a new survey via using the survey creator. A textbox will be given along with the type of options they would like to use and optional comments box can be added. If the survey is not published before exiting, it will not be saved. When they feel confident that a survey is ready they can publish it so students may take it. Administrators can also comeback and modify an eval if necessary.

**DB Schema**