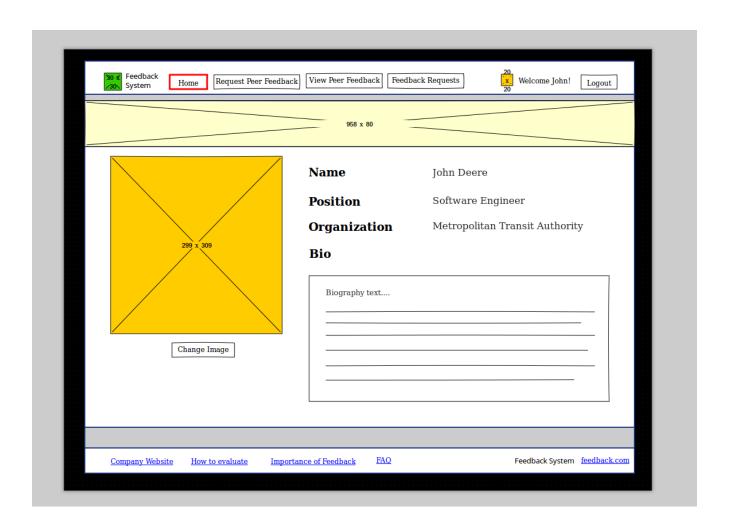
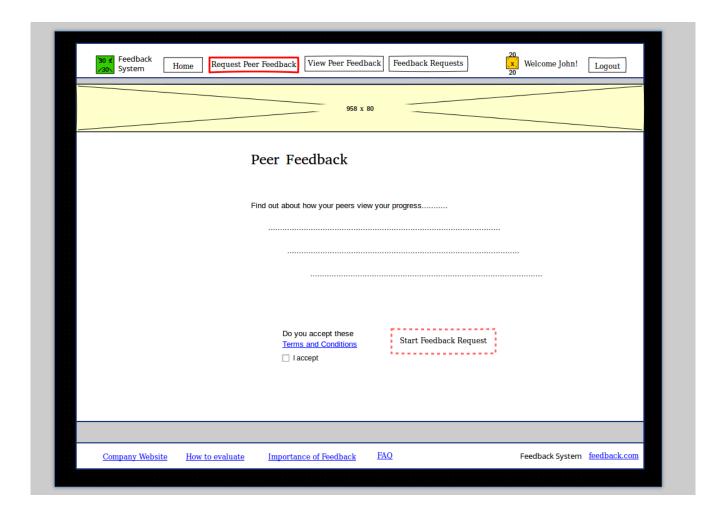
360 Degree Feedback System

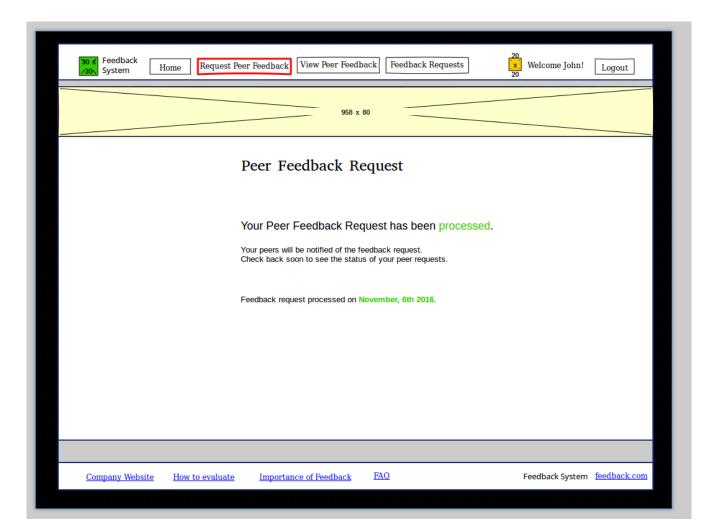
Wire Frame Design

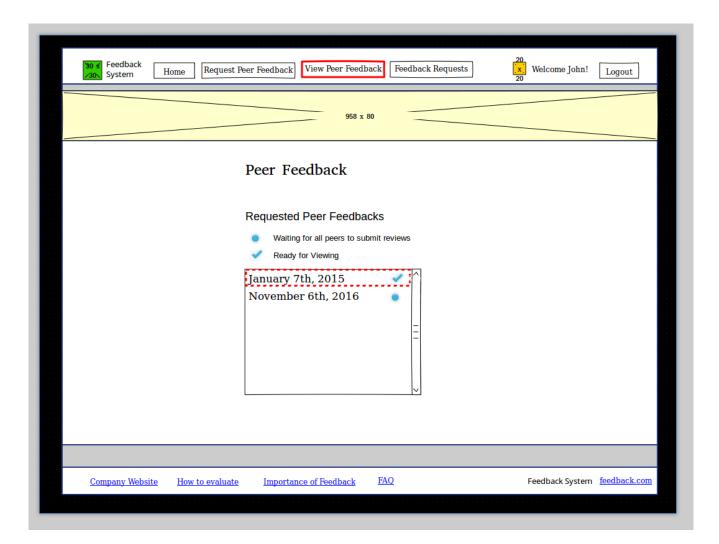
Notes:

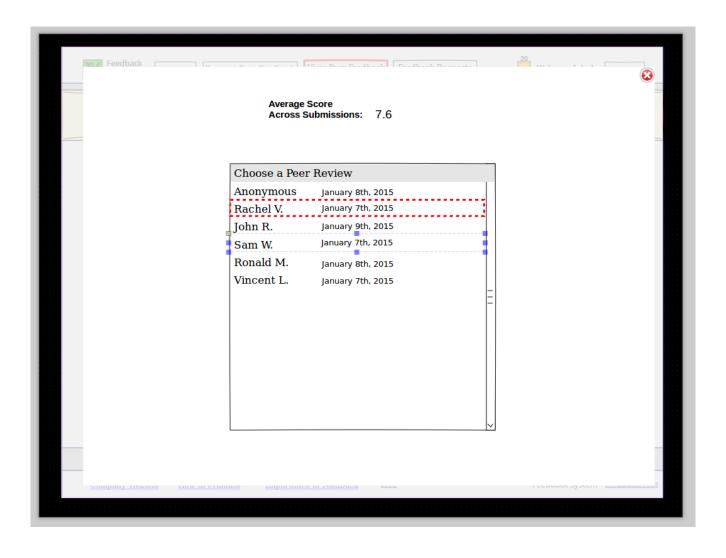
- * Solid red lines around buttons suggest that this is the current open tab.
- * Dotted red lines around buttons suggest that this will be the next button clicked.
- * Green box on nav bar suggests an image, either for the company of the employee or the logo of the creator of the system.
- * Orange box on the nav bar suggests an image of the employee. Could be an avatar, or a picture of the employee.
- * Boxes that have a gray background suggest that a modal was opened.

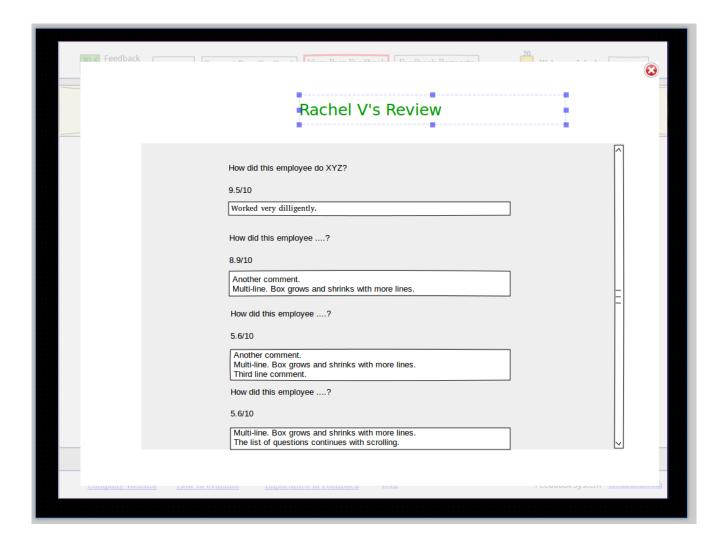


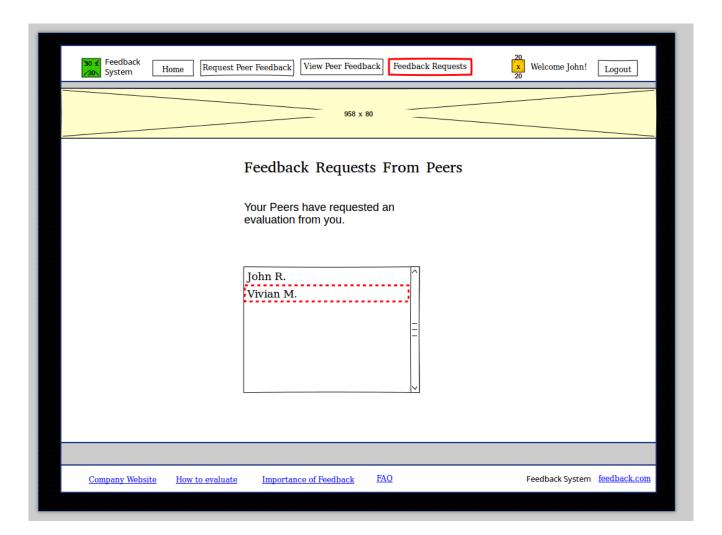


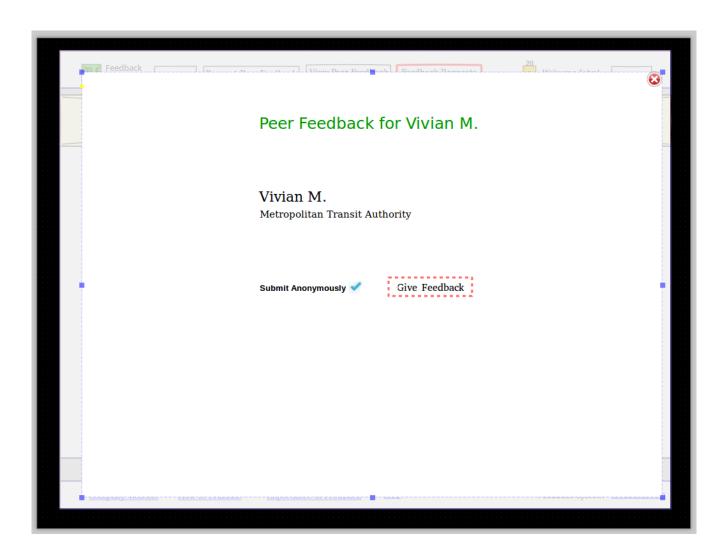




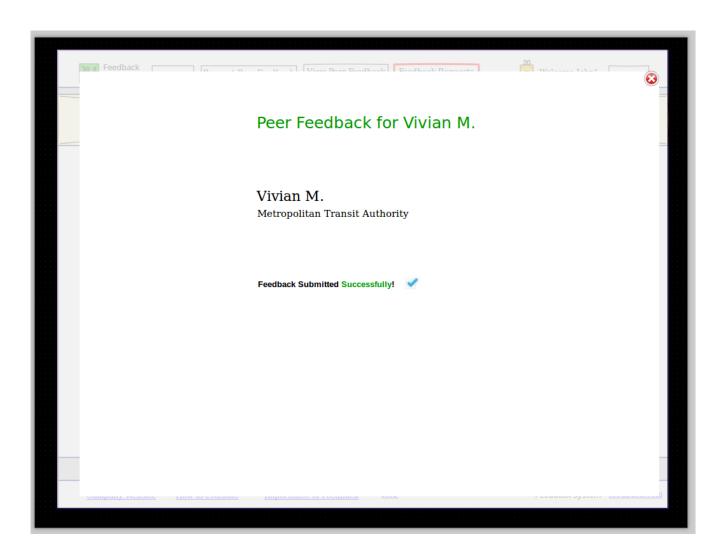




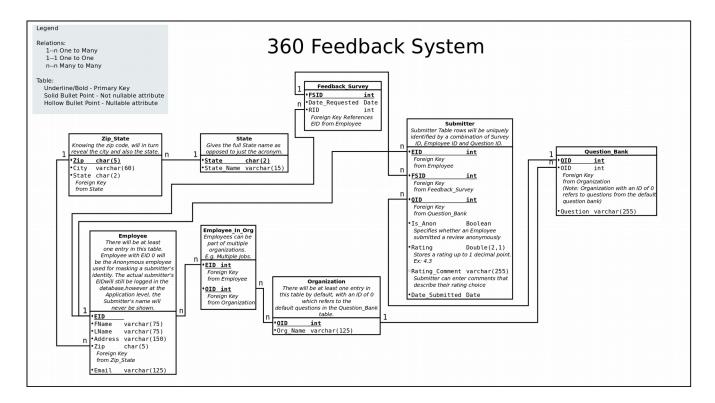




So ₹ Feedback	Peer Feedback for Vivian M.	20	&
	Peer reedback for viviali M.		
	How did this employee do XYZ? Enter additional comment [optional] How did this employee? Enter additional comment [optional] How did this employee?		
Mangaing Heaville	How did this employee? Enter additional comment [optional]	Submit	



Complete Physical ERD



Note:

- * Assumptions given in the ER diagram.
- * Note that the company gets to choose what questions are given in the feedback survey. This is handled by an administrative entity, and was not included in the wire frame since the assumption is that this would be done at the setup of the application.

Database Query

Retrieves Question Text, Submitter's Response and the Name of the Submitter only if it's not Anonymous. If so, display 'Anonymous' for the Name.

```
Select a.Question,

CONCAT(b.Rating, ' | ', b.Rating_Comment) as Submitter_Response, case b.Is_Anon

when 1 then CONCAT(c.Fname,', ', c.Lname)

when 0 then 'Anonymous' end as Submitter_Name

FROM

Feedback_Survey d INNER JOIN Submitter b

on d.FSID = b.FSID INNER JOIN Question_Bank a

on b.QID = a.QID INNER JOIN Employee c

on c.EID = b.EID

WHERE d.FSID = 2;
```

Algorithm

```
Hashmap<String, double> getAverageScores(userID, questionsPerSurvey){
       create Hashmap<String, Hashmap<String, double> dataQueryHolder;
       select rating entries from database
       where the userID is found in the Feedback_Survey table
       and where the submitters submitted to a surveyID
              that is associated with the userID.
       Retrieve all the ratings per submitter, per surveyID
       that were associated with userID
       create double ratingSum=0;
       create ratingCounter=0;
       create double mean=0;
       Store into dataQueryHolder
       where the surveyID will by the key to the outer hash map
              and where submitterID will by the key to the inner hash map
              with a value of Rating.
       While storing each rating{
              ratingSum += rating;
              ratingCounter++;
       once finished,
       mean = (ratingSum/ratingCounter);
       Create double standardDeviation=0;
       create Array<double> tempForStandDev[ratingCounter];
       create int counterForSD;
       //calculate the standardDeviation
       for each(surveyID in dataQueryHolder){
              for each(rating in submitterID){
                     tempForStandDev[counterForSD]= squared(rating - mean);
                     counterForSD++;
              }
       }
       create double sumForStandDev;
       for each(entry in tempForStandDev){
              sumForStandDev += entry;
       }
       //Standard Deviation for ALL the ratings from the database query for userID
```

```
//Normalizing each score
create double avgOfSubmitters;
create Hashmap<String, double> avgPerSurvey;
for each(surveyID in dataQueryHolder){
      create double sumPerSurveyTemp;
       for each(rating in submitterID){
              rating = (rating - mean)/(standardDeviation);
              avgOfSubmitters += rating;
              sumPerSurveytemp += rating;
      sumPerSurveyTemp /= questionsPerSurvey;
       String hashKey = surveyID + "avg";
       avgPerSurvey.insert(hashkey, sumPerSurveyTemp);
avgOfSubmitters /= ratingCounter;
create Hashmap<String, double> returnsAveragedData;
returnsAveragedData.insert("avgAcrossSubmitters", avgOfSubmitters);
for each(entry in avgPerSurvey){
      returnsAveragedData .insert(each entry with same key, value);
for each(surveyID in dataQueryHolder){
      int mixinHashValue = 0;
      for each(rating in submitterID){
              String newHashKey = surveyID + submitterID + mixinHashValue;
              returnsAveragedData.insert(newHashKey, rating);
       }
}
 Returns all (normalized) submitted feedback, along with
 average score across all submitters and all of the feedback.
*/
return returnsAveragedData;
```

}

standardDeviation = sqrt(sumForStandDev/ratingCounter);