

Use Case Document

Name	Date	Reason For Changes	Version
Nat Welch	2/1/09	Merged wiki versions of use cases	0.42
Katherine Blizzard	2/3/09	Made so many changes	1.41
Nat Welch	2/4/09	Made even more changes	1.42
Katherine Blizzard	2/5/09	Reworked all of the “Modified” Use Cases	1.43
Victor Gerdin	2/9/09	Added more Use Cases	1.44
Nat Welch	2/9/09	Merged Victor's Work and re-factored list	1.51
Nat Welch	2/10/09	Continued Merging and Editing	1.542

Actor: Student

1. View Announcements
2. View current grade
3. Check current class standing
4. Predict Grade in class
5. Print page
6. Download file
7. Upload File
8. Reset Password

Actor: Teacher

9. View Metrics
10. Add Class
11. Remove Class
12. Edit Class
13. Add Users
14. Remove Users
15. Edit Users
16. Add Assignment
17. Remove Assignment
18. Edit Assignments
19. Add Announcement
20. Remove Announcement
21. Edit Announcement
22. Send Email
23. Grade Students
24. View roster
25. Take attendance
26. Adjust grading curve
27. Import data
28. Export data

Use Case	UC-1	Use Case Name	View Announcements
Created By	Nat Welch	Last Modified By	Viktor Gerdin
Date Created	1/26/09	Last Change	2/9/09
Actor	Student		
Description	The system shows all of the Announcement(s) posted by the Teacher sorted with the most recently posted Announcement at the top of the list. A Student can view this list and each Announcement shows a title, time and date of creation, and the content of the Announcement .		
Pre-conditions	Student must be enrolled in the Class and authenticated with the system.		
Post-conditions	The Announcement list as specified in the description is displayed.		
Normal Flow	1. Actor views the Announcement list		
Alternate Flow	N/A		
Frequency of Use	Once a day		
Exceptions	If no Announcement has been made the system displays a "No announcements" message.		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	None		
Priority	High		

Use Case	UC-2	Use Case Name	View Grade
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	1/25/09	Last Change	2/9/09
Actor	Student		
Description	The System displays a summary of grades from the Student using the system.		
Pre-conditions	Student must be enrolled in the Class and authenticated with the system.		
Post-conditions	The Announcement list as specified in the description is displayed.		
Normal Flow	<ol style="list-style-type: none"> 1. The system presents a table of Student Assignment Grades and Total Grade. 2. The Student can choose to select a column of the table to sort. 		
Alternate Flow	N/A		
Frequency of Use	Once a week		
Exceptions	<p>If an Assignment Grade has not been graded yet, System displays a table with Assignment Grade names but the Assignment Score is not displayed.</p> <p>If no Assignment Grades exist yet, System displays the words “No Assignments Yet” instead of the table.</p>		
Includes	None		
Special Requirements	The Student can see only his own grades. This is a requirement specified by the Peer-Grading section of FERPA.		
Assumptions	None		
Notes and Issues	None		
Priority	High		

Use Case	UC-3	Use Case Name	Check Class Standing
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	1/30/09	Last Change	2/9/09
Actor	Student		
Pre-conditions	Student must be enrolled in the Class and authenticated with the system.		
Post-conditions	None		
Description	The System compares Student Assignment Grades and Total Grades with all Assignment Grades and Total Grades in Student 's class and displays the comparison using different metrics.		
Normal Flow	1. System displays comparison metrics.		
Alternate Flow	N/A		
Frequency of Use	Once a week		
Exceptions	<p>If the Student is alone in the class, the system displays an error message.</p> <p>If no Assignment Grades exist, system displays an error message.</p> <p>If no Assignment Grades have been graded yet, system displays an error message.</p>		
Includes	None		
Special Requirements	Student should not be able to discern the identity of other Student in the class .		
Assumptions	None		
Notes and Issues	None		
Priority	Medium		
Notes and Issues	None		
Priority	Medium		

Use Case	UC-5	Use Case Name	Printer Friendly Page
Created By	Michael Quan	Last Modified By	Nat Welch
Date Created	1/31/09	Last Change	2/9/09
Actor	Student, Teacher		
Pre-conditions	User must be authenticated with the system.		
Post-conditions	None		
Description	The System displays a page that minimizes color usage.		
Normal Flow	1. User chooses to go to a Printer Friendly Page.		
Alternate Flow	N/A		
Frequency of Use	Once a week		
Exceptions	None		
Includes	None		
Special Requirements	Student should not be able to discern the identity of other Student in the class .		
Assumptions	None		
Notes and Issues	None		
Priority	Low		

Use Case	UC-6	Use Case Name	Download File
Created By	Michael Quan	Last Modified By	Nat Welch
Date Created	1/31/09	Last Change	2/9/09
Actor	Student, Teacher		
Pre-conditions	User must be authenticated with the system.		
Post-conditions	None		
Description			
Normal Flow			
Alternate Flow	N/A		
Frequency of Use	Once a week		
Exceptions	None		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	None		
Priority	Low		

Use Case	UC-7	Use Case Name	Upload File
Created By	Michael Quan	Last Modified By	Nat Welch
Date Created	1/31/09	Last Change	2/9/09
Actor	Student, Teacher		
Pre-conditions	User must be authenticated with the system.		
Post-conditions	None		
Description			
Normal Flow			
Alternate Flow	N/A		
Frequency of Use	Once a week		
Exceptions	None		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	None		
Priority	Low		

Use Case	UC-8	Use Case Name	Reset Password
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	2/9/09	Last Change	2/9/09
Actor	Student, Teacher		
Pre-conditions			
Post-conditions	None		
Description			
Normal Flow			
Alternate Flow	N/A		
Frequency of Use	Very rarely		
Exceptions	None		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	None		
Priority	Medium Low		

Use Case	UC-9	Use Case Name	View Metrics
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	2/9/09	Last Change	2/9/09
Actor	Teacher		
Pre-conditions			
Post-conditions	None		
Description			
Normal Flow			
Alternate Flow	N/A		
Frequency of Use	Very rarely		
Exceptions	None		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	None		
Priority	Medium Low		

Use Case	UC-10	Use Case Name	Add a Class
Created By	Nat Welch	Last Modified By	Viktor Gerdin
Date Created	1/27/09	Last Change	2/9/09
Actor	Teacher		
Pre-conditions	Teacher must be authenticated with the system		
Post-conditions	The information entered by the Teacher is stored.		
Description	The Teacher creates a Class .		
Normal Flow	<ol style="list-style-type: none"> 1. Teacher enters Class Title. 2. Teacher enters Class Section and Class Number. 3. Teacher enters location of class. 4. Teacher adds time of class. 5. Teacher enters Grading Rules and Class Curve 		
Alternate Flow	3a. Teacher should not be required to enter Grading Rules and Class Curve .		
Frequency of Use	Once a week		
Exceptions	None		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	Teacher Assistant with the ManageClass Permission can also perform this action.		
Priority	High		

Use Case	UC-11	Use Case Name	Remove Class
Created By	Nat Welch	Last Modified By	Viktor Gerdin
Date Created	1/27/09	Last Change	2/9/09
Actor	Teacher		
Pre-conditions	Teacher must be authenticated with the system		
Post-conditions	The Class specified by Teacher is deleted.		
Description	The Teacher deletes a Class .		
Normal Flow	<ol style="list-style-type: none"> 1. Teacher selects a Class 2. Teacher deletes selected Class 		
Alternate Flow	N/A		
Frequency of Use	Very Rarely		
Exceptions	None		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	Teacher Assistant with the ManageClass Permission can also perform this action.		
Priority	Medium High		

Use Case	UC-12	Use Case Name	Edit Class
Created By	Nat Welch	Last Modified By	Viktor Gerdin
Date Created	1/27/09	Last Change	2/9/09
Actor	Teacher		
Pre-conditions	Teacher must be authenticated with the system		
Post-conditions			
Description			
Normal Flow			
Alternate Flow	N/A		
Frequency of Use	Once a week		
Exceptions	None		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	Teacher Assistant with the ManageClass Permission can also perform this action.		
Priority	Medium High		

Use Case	UC-13	Use Case Name	Add Users
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	1/27/09	Last Change	2/9/09
Actor	Teacher		
Pre-conditions	Teacher must be authenticated with the system		
Post-conditions	The information is stored by the system, and the new User is emailed their automatically generated password.		
Description	The Teacher adds a new User to the system.		
Normal Flow	<ol style="list-style-type: none"> 1. Teacher inputs name and username of User. 2. Teacher adds email address for user. 3. The Teacher specifies whether new user is a Teacher Assistant or Student 4. After Teacher is finished entering information, System emails User with randomly generated password and a message to change password. 		
Alternate Flow	N/A		
Frequency of Use	Twice a quarter.		
Exceptions	If username specified already exists or email is already in use, System displays an error and Teacher must correct the error to continue.		
Includes	None		
Special Requirements	Someone has provided Student information to the Teacher .		
Assumptions	None		
Notes and Issues	None		
Priority	High		

Use Case	# 14	Use Case Name	Remove User
Created By	Viktor Gerdin	Last Modified By	Nat Welch
Date Created	2/09/09	Last Change	2/10/09
Actor	Teacher		
Description	The Teacher can remove an Account from the system. The system will notify the Account holder about the termination of the Account .		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	Any <i>other Account</i> must be unaffected by the removal of an Account .		
Normal Flow	<p>The Actor selects a Account for removal</p> <p>The system prompts for conformation to remove Account</p> <p>The Actor verifies the request to remove Account</p> <p>The system removes Account data from storage</p> <p>The system notifies Account holder of termination of Account.</p> <p>The system displays the message “[Username]’s account has been removed”</p>		
Alternate Flow	<p><u>At step 5 of Normal Flow:</u></p> <p>5a. The Actor selects to cancels the request to remove Account</p> <p>6a. The system returns to step 1 <i>without</i> removing the Account</p>		
Frequency of Use	Once a quarter		
Exceptions	If Account could not be removed, the system displays a message: "Error: [Username]’s account could not be removed” .		
Includes	None		
Special Requirements	If Actor removes its own Account the system must immediately deny any further access to the Actor.		
Assumptions	None		
Notes and Issues	Teacher Assistant with the ManageUser Permission can also perform this action.		
Priority	High		

Use Case	UC-15	Use Case Name	Edit User
Created By	Viktor Gerdin	Last Modified By	Nat Welch
Date Created	2/09/09	Last Change	2/10/09
Actor	Teacher		
Description	The Teacher can edit an Account from the system. The system will notify the Account holder about any changed made.		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	Any <i>other Account</i> must be unaffected by the editing of an Account . Password must comply with security requirement SE-4. (See Section 5.3 in SRS)		
Normal Flow	<p>The Actor selects a Account for editing</p> <p>The system displays the selected Account</p> <p>The Actor selects what Account data to edit</p> <p>The Actor edits selected Account data</p> <p>The Actor selects to store any changes</p> <p>The system stores updated Account data</p> <p>The system notifies Account holder of any changed data.</p> <p>The system displays the message “[Username]’s account has been updated”</p> <p>The system displays the edited Account</p>		
Alternate Flow	<p><u>At step 5 of Normal Flow:</u></p> <p>5a. The Actor selects to cancels the edit</p> <p>6a. The system returns to step 1 <i>without</i> altering any Account</p> <p><u>At step 6 of Normal Flow:</u></p> <p>If Password does not comply with SE-4 (see Section 5.3 in SRS)</p> <p>6b. The system displays message “New password is not secure enough.”</p> <p>7b. The system returns to step 4 <i>without</i> altering any Account</p> <p><u>At step 6 of Normal Flow:</u></p> <p>If EmailAddress is not a valid address:</p> <p>6c. The system displays message “New email address is not a valid address.”</p>		

	7c. The system returns to step 4 <i>without</i> altering any Account
Frequency of Use	Once a quarter
Exceptions	If Account changes could not be stored, the system displays a message: "Error: [Username]'s account could not be changed" .
Includes	None
Special Requirements	If EmailAddress is changed, both the old and new address are notified of the change.
Assumptions	None
Notes and Issues	Teacher Assistant with the ManageUser Permission can also perform this action. Student with the ManageUser Permission can change their own Name , Password and EmailAddress .
Priority	High

Use Case	UC-16	Use Case Name	Add Assignment
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	1/27/09	Last Change	2/9/09
Actor	Teacher		
Pre-conditions	Teacher must be authenticated with the system		
Post-conditions	The information is stored to the System.		
Description	The Teacher adds a new Assignment to the system.		
Normal Flow	<ol style="list-style-type: none"> 1. Teacher inputs Assignment Name. 2. Teacher inputs Assignment Due Date. 3. Teacher inputs Assignment Total. 4. Teacher chooses Assignment type: Quiz, Test, Final, Participation, or Other. 		
Alternate Flow	N/A		
Frequency of Use	Once a week		
Exceptions	<p>If Assignment name already exists, The system displays an error and the Teacher must correct the error to continue.</p> <p>If the DueDate or assignment type is missing, throw an error and the Teacher must correct the error to continue.</p>		
Includes	None		
Special Requirements	Someone has provided Student information to the Teacher .		
Assumptions	None		
Notes and Issues	None		
Priority	High		

Use Case	UC-17	Use Case Name	Remove Assignment
Created By	Viktor Gerdin	Last Modified By	
Date Created	2/09/09	Last Change	
Actor	Teacher		
Description	The Teacher can remove an Assignment from the system. The system recalculates any AssignmentGrade dependent on removed Assignment .		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	<p>Any <i>other</i> Assignment must be unaffected by the removal of an Assignment.</p> <p>Any calculated AssignmentGrade must be correct after removal of an Assi</p>		
Normal Flow	<p>The Actor selects an Assignment for removal</p> <p>The System prompts for conformation to remove Assignment</p> <p>The Actor verifies the request to remove Assignment</p> <p>The system removes Assignment data from storage</p> <p>The system displays the message "Assignment [Name] has been removed"</p>		
Alternate Flow	<p>At step 3 of Normal Flow:</p> <p>3a. The Actor cancels the request to remove Assignment</p> <p>4a. The system returns to step 1 <i>without</i> altering any Assignment</p>		
Frequency of Use	Once a week		
Exceptions	If Assignment could not be removed (step 4) display message: "Error: Assignment [Name] could not be removed" .		
Includes	None		
Special Requirements	The system will automatically (without request) update any stored data so that affected features (UC-2, UC-3, UC-4, UC-9, UC-23, UC-26) will work correctly.		
Assumptions	None		
Notes and Issues	Teacher Assistant with the ManageAssignment Permission can also perform this action.		
Priority	High		

Use Case	UC-18	Use Case Name	Edit Assignment
Created By	Viktor Gerdin	Last Modified By	
Date Created	2/09/09	Last Change	
Actor	Teacher		
Description	The Teacher can edit an Assignment in the system. The system recalculates any AssignmentGrade dependent on removed Assignment .		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	Any <i>other</i> Assignment must be unaffected by the editing of an Assignment . Any calculated AssignmentGrade must be correct after editing of an Assignment		
Normal Flow	<p>The Actor selects an Assignment for editing</p> <p>The system displays the selected Assignment</p> <p>The Actor selects what Assignment data to edit</p> <p>The Actor edits selected Assignment data</p> <p>The Actor selects to store any changes</p> <p>The system stores updated Assignment data</p> <p>The system displays the message "Assignment [Name] has been updated"</p> <p>The system displays the edited Assignment</p>		
Alternate Flow	<p>At step 5 of Normal Flow:</p> <p>5a. The Actor selects to cancels the edit</p> <p>6a. The system returns to step 1 <i>without</i> altering any Assignment</p> <p>At step 6 of Normal Flow:</p> <p>6a. If any stored data depends on the altered Assignment data the system updates any dependent data. See Special Requirements</p>		
Frequency of Use	Once a week		
Exceptions	<p>If Assignment changes could not be stored, the system displays a message: "Error: Assignment [Name] could not be changed" .</p> <p>If Actor enters invalid data for Assignment the system displays a message telling the Actor what data is faulty and why.</p>		

Includes	None
Special Requirements	The system will automatically (without request) update any stored data so that affected features (UC-2, UC-3, UC-4, UC-9, UC-23, UC-26) will work correctly.
Assumptions	None
Notes and Issues	Teacher Assistant with the ManageAssignment Permission can also perform this action.
Priority	High

Use Case	UC-19	Use Case Name	Add Announcements
Created By	Katherine Blizzard	Last Modified By	Nat Welch
Date Created	1/31/09	Last Change	2/10/09
Actor	Teacher		
Description	The Teacher is able to add a new Announcement for one or more classes.		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	The new Announcement is stored within the system		
Normal Flow	<ol style="list-style-type: none"> 1. The Teacher enters a title for the new Announcement. 2. The Teacher enters the body of text for the Announcement. 3. The Teacher chooses one or more classes that this Announcement is for. 4. The System adds the current date and time to the Announcement . 		
Alternate Flow	None		
Frequency of Use	Several times a week		
Exceptions	None		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	None		
Priority	Medium High		

Use Case	UC-20	Use Case Name	Remove Announcement
Created By	Viktor Gerdin	Last Modified By	Nat Welch
Date Created	2/09/09	Last Change	2/10/09
Actor	Teacher		
Description	The Teacher can remove an Announcement from the system. Any other Announcement must be unaffected by the removal of an Announcement .		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	Any <i>other</i> Announcement must be unaffected by the removal of an Announcement .		
Normal Flow	<p>The Actor selects an Announcement for removal</p> <p>The System prompts for conformation to remove Announcement</p> <p>The Actor verifies the request to remove Announcement</p> <p>The system removes Announcement data from storage</p> <p>The system displays message "Announcement [AnnouncementTitle] was successfully removed."</p>		
Alternate Flow	<p>At step 3 of Normal Flow:</p> <p>3a. The Actor cancels the request to remove Announcement</p> <p>4a. The system returns to step 1 <i>without</i> altering any Announcement</p>		
Frequency of Use	Once a week		
Exceptions	If Announcement could not be removed(step 4) display a "Error: Announcement [AnnouncementTitle] could not be removed" message.		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	Teacher Assistants with the ManageAnnouncement Permission can also perform this action.		
Priority	High		

Use Case	UC-21	Use Case Name	Edit Announcement
Created By	Viktor Gerdin	Last Modified By	Nat Welch
Date Created	2/09/09	Last Change	2/10/09
Actor	Teacher		
Description	The Teacher can edit an Announcement in the system.		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	Any <i>other</i> Announcement must be unaffected by the editing of an Announcement . The system will update AnnouncementDate when storing changes		
Normal Flow	<p>The Actor selects an Announcement for editing</p> <p>The system displays the selected Announcement</p> <p>The Actor selects what Announcement data to edit</p> <p>The Actor edits Announcement data</p> <p>The Actor selects to store any changes</p> <p>The system stores updated Announcement data</p> <p>The systems displays the message “Announcement [AnnouncementTitle] has been updated”</p> <p>The system displays the edited Announcement</p>		
Alternate Flow	<p>At step 5 of Normal Flow:</p> <p>5a. The Actor selects to cancel the edit</p> <p>6a. The system returns to step 1 <i>without</i> altering any Announcement</p>		
Frequency of Use	Once a week		
Exceptions	If Announcement could not be stored (step 6) display a "Error: Changes to announcement [AnnouncementTitle] could not be stored" message.		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	Teacher Assistants with the ManageAnnouncement Permission can also perform this action.		
Priority	High		

Use Case	UC-22	Use Case Name	Send Email
Created By	Katherine Blizard	Last Modified By	Nat Welch
Date Created	1/31/09	Last Change	2/10/09
Actor	Teacher		
Description	Actor can send an Email out to a student by student user name or email address or to the entire class or classes.		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	Applicable students receive email from the Teacher.		
Normal Flow	<ol style="list-style-type: none"> 1. Teacher selects a class(es). Then Teacher proceeds to fill out the title and body of the email as desired. 2. If a file name of a file to be uploaded is present, the user uploads the file to the system. 3. The system sends the email to the specified class. 		
Alternate Flow	None		
Frequency of Use	Once a day		
Exceptions	An error occurs if the Teacher enters nothing, an invalid username , an invalid class name or invalid email address in the address line and the email is not sent. If the Teacher enters nothing for the email title , an error is displayed. If the Teacher sends an email with no body, a dialog box informing the Teacher is displayed.		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	Teacher Assistants with the ManageAnnouncement Permission can also perform this action.		
Priority	Medium Low		

Use Case	UC-23	Use Case Name	Grade Students
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	2/1/08	Last Change	2/10/09
Actor	Teacher		
Description	The Teacher will choose a class to grade and will then be given a list of students and assignments		
Pre-conditions	Teacher must be authenticated with the system and have created a class with assignments in it.		
Post-conditions	The information is stored to the System.		
Normal Flow	<ol style="list-style-type: none"> 1. Teacher chooses a class to grade. 2. Teacher chooses an Assignment to grade. 3. Teacher chooses a student to grade. 4. Teacher enters an Assignment Score for this student's assignment. 		
Alternate Flow	None		
Frequency of Use	Several times a week		
Exceptions	If preconditions are not met, the system throws an error.		
Includes	None		
Special Requirements	None		
Assumptions	All Assignment Grades are set to zero before an Assignment Grade is entered.		
Notes and Issues	None		
Priority	High		

Use Case	UC-24	Use Case Name	View Roster
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	2/1/08	Last Change	2/10/09
Actor	Teacher		
Description	The Teacher selects a class and will receive a roster of the class .		
Pre-conditions	Teacher must be authenticated with the system and have created a class with assignments in it.		
Post-conditions	None		
Normal Flow	<ol style="list-style-type: none"> 1. Teacher chooses a class to view. 2. The System displays a table of students enrolled in the class. Each Student's username, name and email address is displayed. 		
Alternate Flow	None		
Frequency of Use	Once a week		
Exceptions	If there are no students enrolled in the class, the System displays an error.		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	None		
Priority	Medium High		

Use Case	UC-25	Use Case Name	Take Attendance
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	2/1/08	Last Change	2/10/09
Actor	Teacher		
Description	The Teacher marks students either absent or present.		
Pre-conditions	Teacher must be authenticated with the system.		
Post-conditions	System stores the new data.		
Normal Flow	<ol style="list-style-type: none"> 1. The Teacher selects a class. 2. The system applies the current date. 3. For each student, the Teacher marks absent or present. 		
Alternate Flow	2a. The Teacher selects a different date.		
Frequency of Use	Once a week		
Exceptions	If there are no students in the class, the system throws an error.		
Includes	View Roster		
Special Requirements	None		
Assumptions	None		
Notes and Issues	Not currently implemented in Data Dictionary.		
Priority	Low		

Use Case # 16**Use Case Name** Curve Adjustment**Created By** Nat Welch**Date Created** 1/27/08**Actor** Teacher**Description**

Our tool will have the ability to adjust the grading curve for each class. Five text boxes with plus and minus buttons will let the Teacher increment or decrement the curve. Above graphs (described in output) will display the new curve. The new curve will not go into effect until the teacher clicks the apply button at the bottom of the page.

Pre-conditions Teacher must be authenticated with the system. The teacher either types in, or uses buttons to select a desired curve. Each box will be related to a certain grade, e.g. A, B, C, D and F.

Post-conditions The information is saved to the database upon clicking apply and the refreshed page shows the new changes. Above the curve modifier boxes there will be two pie charts. The first pie chart will show the distribution of the grade by percent. So if the curve is set to have the A/B border at 90%, the B/C border at 80%, the C/D border at 70%, and the D/F border be at 50% there would be a pie chart that has 50% for F, 20% for D, and 10% for each A, B and C. Each section will be a different color. The second pie chart will show how many students are getting each grade. The colors in these should be the same so the Teacher can easily understand differentiate between grades on both charts. Like all charts in our system, the charts should be properly labeled. The charts should also be the same size.

Frequency of Use Once a week**Exceptions** None**Includes** None**Special Requirements** None**Assumptions** None**Notes and Issues** None**Priority**

Use Case # 17**Use Case Name** Import Data**Created By** Katherine Blizard**Date Created** 1/31/2009**Actor** Teacher**Description**

The Teacher imports a file containing data from rosters, students, or assignments.

Normal Flow

1. **Teacher** is prompted if he will import a **Class** (a list of **Students**), a **Student** (a list of their **assignment grades**), or an **Assignment** (a list of **students** and their grades they received on that **assignment**).
2. The Teacher uploads the file to the system, which creates a new **Class** if the Teacher selected Roster, or otherwise searches for each **student** and updates their **Assignment Grades** accordingly.
3. The system recalculates all **Student** Total Grades.
4. A completed message is given to the **Teacher**

Pre-conditions The **Teacher** is authenticated with the system. The Teacher has created or received a data file containing at minimum a **Student's username** and the class they belong to. If the **Teacher** is uploading an **Assignment Grade** data file, the **assignment** number and type (Test, Quiz, Final, Homework, Participation, or Other) is required.

Post-conditions The System has updated all **classes** and **students** to match the result in the spreadsheet.

Frequency of Use About twice per week.

Exceptions If the **Assignment Grade** to be updated has a grade already in place, the System displays an error.

Includes None

Special Requirements None.

Assumptions The system assumes the teacher has labeled spreadsheet columns appropriately and put the correct number in the correct column

Notes and Issues None

Priority Medium

Use Case # 18**Use Case Name** Export Data**Created By** Calvin Vu**Date Created** 1/31/2009**Actor** Teacher**Description**

The system will be able to export each **Class** and all data items within the **Class** to a file on the **Teacher's** computer.

Normal Flow

1. The **Teacher** selects a **class** he wishes to export.
2. The System compiles the **class** information into a **file**.
3. The System presents this **file** for download to the **Teacher**.

Pre-conditions The desired **Class** must already exist.**Post-conditions** The **Teacher** receives a file containing **Class** information.**Frequency of Use** Once a quarter.**Exceptions** If exporting fails then an error message is displayed. Exporting can fail due to an inconsistency with the storage or a network error.**Includes** None**Special Requirements** The **Teacher** must have access to program that can display the downloaded file. Only **Teacher** has access to this use case.**Assumptions** None**Notes and Issues** Look into password protecting or encrypting the exported file.**Priority** Medium.

Use Case # 19**Use Case Name** Upload Files**Created By** Calvin Vu**Date Created** 1/31/2009**Actor** Teacher**Description**

The **Teacher** uploads **files** for distribution to other users. Once the **Teacher** selects a file, the transfer will begin. Once stored, the file will be displayed as a downloadable **file** to any **Student**. in the **class**.

Pre-conditions The **Teacher** clicks the upload button.

Post-conditions The System has stored a new **file**.

Frequency of Use Twice a week

Exceptions If the upload fails, the System displays an error message. Upload can fail due to network error. If a file with the same name already exists, the newly uploaded file's name is appended with a number.

Includes None

Special Requirements None

Assumptions The **Teacher** has the file stored on his computer.

Notes and Issues None

Priority Low

Use Case # 20**Use Case Name** Download Files**Created By** Calvin Vu**Date Created** 1/31/2009**Actor** Teacher**Description**

The Teacher may need to download files that have been previously uploaded. Each individual assignment page will list available files and their attributes: name, type, time uploaded, and uploaded by. A download button will begin the download. A download all button will begin a download for all listed files packaged in zip format.

Pre-conditions The desired file must have already been uploaded. The Teacher clicks a “download” or “download all” button.

Post-conditions The desired file is transferred to the Teacher.

Frequency of Use Once a day

Exceptions If the download fails then an error message is displayed. Failure can be a result of database inconsistency or network error.

Includes None

Special Requirements The Teacher must have access to a program that can read zip files if using the download all function.

Assumptions None

Notes and Issues None

Priority