Use Case Document

Name	Date	Reason For Changes	Version
Nat Welch	2/1/09	Merged wiki versions of use cases	0.42
Katherine Blizard	2/3/09	Made so many changes	1.41
Nat Welch	2/4/09	Made even more changes	1.42
Katherine Blizard	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	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	If an **Assignment Grade** has not been graded yet, System displays a table with **Assignment Grade** names but the **Assignment Score** is not displayed. If no **Assignment Grades** exist yet, System displays the words "No Assignments Yet" instead of the table.		
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	If the **Student** is alone in the **class,** the system displays an error message. If no **Assignment Grades** exist, system displays an error message. If no **Assignment Grades** have been graded yet, system displays an error message.		
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	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	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	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 *other* **Account** must be unaffected by the removal of an **Account.**		
Normal Flow	The Actor selects a **Account** for removal The system prompts for conformation to remove **Account** The Actor verifies the request to remove **Account** The system removes **Account** data from storage The system notifies **Account** holder of termination of **Account**. The system displays the message "[**Username**]'s account has been removed"		
Alternate Flow	At step 5 of Normal Flow: 5a. The Actor selects to cancels the request to remove **Account** 6a. The system returns to step 1 *without* removing the **Account**		
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 *other* **Account** 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	The Actor selects a **Account** for editing The system displays the selected **Account** The Actor selects what **Account** data to edit The Actor edits selected **Account** data The Actor selects to store any changes The system stores updated **Account** data The system notifies **Account** holder of any changed data. The system displays the message "[**Username**]'s account has been updated" The system displays the edited **Account**		
Alternate Flow	At step 5 of Normal Flow: 5a. The Actor selects to cancels the edit 6a. The system returns to step 1 *without* altering any **Account** At step 6 of Normal Flow: If **Password** does not comply with SE-4 (see Section 5.3 in SRS) 6b. The system displays message "New password is not secure enough." 7b. The system returns to step 4 *without* altering any **Account** At step 6 of Normal Flow: If **EmalAddress** is not a valid address: 6c. The system displays message "New email address is not a valid address."		

	7c. The system returns to step 4 *without* 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	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	If **Assignment** name already exists, The system displays an error and the **Teacher** must correct the error to continue. If the **DueDate** or **assignment** type is missing, throw an error and the **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	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	Any *other* **Assignment** must be unaffected by the removal of an **Assignment.** Any calculated **AssignmentGrade** must be correct after removal of an **Assi**		
Normal Flow	The Actor selects an **Assignment** for removal The System prompts for conformation to remove **Assignment** The Actor verifies the request to remove **Assignment** The system removes **Assignment** data from storage The system displays the message "Assignment [**Name**] has been removed"		
Alternate Flow	At step 3 of Normal Flow: 3a. The Actor cancels the request to remove **Assignment** 4a. The system returns to step 1 *without* altering any **Assignment**		
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 *other* **Assignment** must be unaffected by the editing of an **Assignment.** Any calculated **AssignmentGrade** must be correct after editing of an **Assignment**		
Normal Flow	The Actor selects an **Assignment** for editing The system displays the selected **Assignment** The Actor selects what **Assignment** data to edit The Actor edits selected **Assignment** data The Actor selects to store any changes The system stores updated **Assignment** data The system displays the message "Assignment [**Name**] has been updated" The system displays the edited **Assignment**		
Alternate Flow	At step 5 of Normal Flow: 5a. The Actor selects to cancels the edit 6a. The system returns to step 1 *without* altering any **Assignment** At step 6 of Normal Flow: 6a. If any stored data depends on the altered **Assignment** data the system updates any dependent data. See Special Requirements		
Frequency of Use	Once a week		
Exceptions	If **Assignment** changes could not be stored, the system displays a message: "Error: Assignment [Name] could not be changed" . If Actor enters invalid data for **Assignment** the system displays a message telling the Actor what data is faulty and why.		

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 Blizard	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	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 *other* **Announcement** must be unaffected by the removal of an **Announcement.**		
Normal Flow	The Actor selects an **Announcement** for removal The System prompts for conformation to remove **Announcement** The Actor verifies the request to remove **Announcement** The system removes **Announcement** data from storage The system displays message "Announcement [**AnnouncementTitle**] was successfully removed."		
Alternate Flow	At step 3 of Normal Flow: 3a. The Actor cancels the request to remove **Announcement** 4a. The system returns to step 1 *without* altering any **Announcement**		
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 *other* **Announcement** must be unaffected by the editing of an **Announcement.** The system will update **AnnouncementDate** when storing changes		
Normal Flow	The Actor selects an **Announcement** for editing The system displays the selected **Announcement** The Actor selects what **Announcement** data to edit The Actor edits **Announcement** data The Actor selects to store any changes The system stores updated **Announcement** data The systems displays the message "Announcement [**AnnouncementTitle**] has been updated" The system displays the edited **Announcement**		
Alternate Flow	At step 5 of Normal Flow: 5a. The Actor selects to cancel the edit 6a. The system returns to step 1 *without* altering any **Announcement**		
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	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	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	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 **student**s 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 **student**s either absent or present.		
Pre-conditions	**Teacher** must be authenticated with the system.		
Post-conditions	System stores the new data.		
Normal Flow	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	UC-26	Use Case Name	Curve Adjustment
Created By	Nat Welch	**Last Modified By**	Nat Welch
Date Created	1/27/08	**Last Change**	2/10/09
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.		
Normal Flow			
Alternate Flow			
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	To Be Rewritten by Nat. Needs to be completed by Friday		
Priority	Medium		

Use Case	UC-27	Use Case Name	Import Data
Created By	Katherine Blizard	Last Modified By	Nat Welch
Date Created	1/31/08	Last Change	2/10/09
Actor	Teacher		
Description	The **Teacher** imports a file containing data from **rosters**, **students**, or **assignments**.		
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.		
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**		
Alternate Flow	None		
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 Low		

Use Case	UC-28	Use Case Name	Export Data
Created By	Kalvin Vu	Last Modified By	Nat Welch
Date Created	1/31/08	Last Change	2/10/09
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.		
Pre-conditions	The desired **Class** must already exist.		
Post-conditions	The **Teacher** receives a file containing **Class** information.		
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**.		
Alternate Flow	None		
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	The system assumes the teacher has labeled spreadsheet columns appropriately and put the correct number in the correct column.		
Notes and Issues	Look into password protecting or encrypting the exported file.		
Priority	Medium		