

# Use Case Document

<b>Name</b>	<b>Date</b>	<b>Reason For Changes</b>	<b>Version</b>
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

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

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

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

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

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

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



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

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

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

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

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

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

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

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



<b>Frequency of Use</b>	Once a quarter
<b>Exceptions</b>	If <b>Account</b> changes could not be stored, the system displays a message: "Error: [Username]'s account could not be changed" .
<b>Includes</b>	None
<b>Special Requirements</b>	If <b>EmailAddress</b> is changed, both the old and new address are notified of the change.
<b>Assumptions</b>	None
<b>Notes and Issues</b>	<b>Teacher Assistant</b> with the <b>ManageUser Permission</b> can also perform this action.  <b>Student</b> with the <b>ManageUser Permission</b> can change their own <b>Name</b> , <b>Password</b> and <b>EmailAddress</b> .
<b>Priority</b>	High

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

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

<b>Use Case</b>	UC-18	<b>Use Case Name</b>	Edit Assignment
<b>Created By</b>	Viktor Gerdin	<b>Last Modified By</b>	
<b>Date Created</b>	2/09/09	<b>Last Change</b>	
<b>Actor</b>	<b>Teacher</b>		
<b>Description</b>	The <b>Teacher</b> can edit an <b>Assignment</b> in the system. The system recalculates any <b>AssignmentGrade</b> dependent on removed <b>Assignment</b> .		
<b>Pre-conditions</b>	The Actor must be authenticated by the system.		
<b>Post-conditions</b>	Any <i>other</i> <b>Assignment</b> must be unaffected by the editing of an <b>Assignment</b> . Any calculated <b>AssignmentGrade</b> must be correct after editing of an <b>Assignment</b>		
<b>Normal Flow</b>	<p>The Actor selects an <b>Assignment</b> for editing</p> <p>The system displays the selected <b>Assignment</b></p> <p>The Actor selects what <b>Assignment</b> data to edit</p> <p>The Actor edits selected <b>Assignment</b> data</p> <p>The Actor selects to store any changes</p> <p>The system stores updated <b>Assignment</b> data</p> <p>The system displays the message "Assignment [<b>Name</b>] has been updated"</p> <p>The system displays the edited <b>Assignment</b></p>		
<b>Alternate Flow</b>	<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 <b>Assignment</b></p> <p>At step 6 of Normal Flow:</p> <p>6a. If any stored data depends on the altered <b>Assignment</b> data the system updates any dependent data. See Special Requirements</p>		
<b>Frequency of Use</b>	Once a week		
<b>Exceptions</b>	<p>If <b>Assignment</b> changes could not be stored, the system displays a message: "Error: Assignment [<b>Name</b>] could not be changed" .</p> <p>If Actor enters invalid data for <b>Assignment</b> the system displays a message telling the Actor what data is faulty and why.</p>		
<b>Includes</b>	None		
<b>Special Requirements</b>	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.		

<b>Assumptions</b>	None
<b>Notes and Issues</b>	<b>Teacher Assistant</b> with the <b>ManageAssignment Permission</b> can also perform this action.
<b>Priority</b>	High

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

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

<b>Use Case</b>	UC-21	<b>Use Case Name</b>	Edit Announcement
<b>Created By</b>	Viktor Gerdin	<b>Last Modified By</b>	Nat Welch
<b>Date Created</b>	2/09/09	<b>Last Change</b>	2/10/09
<b>Actor</b>	<b>Teacher</b>		
<b>Description</b>	The <b>Teacher</b> can edit an <b>Announcement</b> in the system.		
<b>Pre-conditions</b>	The Actor must be authenticated by the system.		
<b>Post-conditions</b>	Any <i>other</i> <b>Announcement</b> must be unaffected by the editing of an <b>Announcement</b> . The system will update <b>AnnouncementDate</b> when storing changes		
<b>Normal Flow</b>	<p>The Actor selects an <b>Announcement</b> for editing</p> <p>The system displays the selected <b>Announcement</b></p> <p>The Actor selects what <b>Announcement</b> data to edit</p> <p>The Actor edits <b>Announcement</b> data</p> <p>The Actor selects to store any changes</p> <p>The system stores updated <b>Announcement</b> data</p> <p>The systems displays the message “Announcement [<b>AnnouncementTitle</b>] has been updated”</p> <p>The system displays the edited <b>Announcement</b></p>		
<b>Alternate Flow</b>	<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 <b>Announcement</b></p>		
<b>Frequency of Use</b>	Once a week		
<b>Exceptions</b>	If <b>Announcement</b> could not be stored (step 6) display a "Error: Changes to announcement [ <b>AnnouncementTitle</b> ] could not be stored" message.		
<b>Includes</b>	None		
<b>Special Requirements</b>	None		
<b>Assumptions</b>	None		
<b>Notes and Issues</b>	<b>Teacher Assistants</b> with the <b>ManageAnnouncement Permission</b> can also perform this action.		
<b>Priority</b>	High		





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

**Use Case # 13****Use Case Name** Grade Students**Created By** Nat Welch**Date Created** 2/1/08**Actor** Teacher**Description**

The **Teacher** will choose a **class** to grade and will then be given a list of students and assignments

**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**.

**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.

**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 # 14****Use Case Name** View Roster**Created By** Nat Welch**Date Created** 2/1/08**Actor** Teacher**Description**

The **Teacher** selects a **class** and will receive a roster of the **class**.

**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.

**Pre-conditions** Teacher must be authenticated with the system.

**Post-conditions** 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 # 15****Use Case Name** Take Attendance**Created By** Nat Welch**Date Created** 2/1/08**Actor** Teacher**Description**

The **Teacher** marks **students** either absent or present.

**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.

**Pre-conditions** **Teacher** must be authenticated with the system.**Post-conditions** System stores the new data.**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 Blizzard**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**