

Use Case Specification Document

<<campusCall>> Development project

Team Members

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1. Stakeholders

Stakeholder	Description (how is the stakeholder impacted by the success or failure of this project?)
Universities	Allows the university to have a centralized place that instructors and students can both access and communicate through
Private tutors	Allows tutors to structure their approach for their students and interact online
Students	Provides them with an ease of access, and relatively stable way to manage and view classes, announcements, etc.

2. Actors and Goals

Actor	Initiating / Participating	Description
Instructor	Initiating	<ul style="list-style-type: none"> • To login • To take attendance • To create polls for the class • To record and post grades • Make class announcements • Create class roster • Create Events • Edit profile
Student	Initiating	<ul style="list-style-type: none"> • To login • View course schedules • Create teams with other students • Message other students/group members • Give poll answers/feedback • Confirm attendance • Edit profile
School Database	Participating	<ul style="list-style-type: none"> • Confirms existing user data • Authorize user login • Stores user registration

3. Use Case Specifications

3.1. User Login

UC-1	User Login
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Related Requirements:	User has login credentials
Initiating Actor:	Student/Instructor
Actor's Goal:	
Participating Actors:	University/School Database, Student, Instructor
Preconditions:	Student/Instructor already has an account
Post-conditions:	Logs the Student/Instructor in and displays the dashboard
Flow of Events for Main Success Scenario:	
1	Student/Instructor provides their account information into the login screen
2	The system verifies the users credentials and allows them to login
3	The system then displays the dashboard
Flow of Events for Extensions (Alternate Scenarios):	
What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<p>Scenario Description: Actor enters invalid data.</p> <p>Flow of events for this scenario:</p> <ul style="list-style-type: none"> 1 The system prompts invalid data entered 2 User is prompted to try again 3 A prompt/button for username/password reset also becomes visible

3.2. User Register

UC-2	User Register
Related Requirements:	User has valid information to register
Initiating Actor:	Student/Instructor
Actor's Goal:	To register an account for campusCall
Participating Actors:	University/School Database, Student, Instructor

Preconditions:	Student/Instructor does not have an account, but credentials for one
Post-conditions:	An account is created for the Student/Instructor
Flow of Events for Main Success Scenario:	
1	Student/Instructor clicks on a register button
2	The system prompts the user to enter their credentials for their new account
3	The user enters their credentials
4	The system checks if the entered credentials have been already used
5	If no conflicts are found, the account is stored and sent for authorization
6	Once authorized, the account is created for user use
Flow of Events for Extensions (Alternate Scenarios):	
What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<p>Scenario Description: Actor enters credentials for an existing account.</p> <p>Flow of events for this scenario:</p> <ul style="list-style-type: none"> 1 The system prompts their data is already an existing account 2 The system prompts user to login instead of register 3 The system prompts a recover account button 4 The system walks the user through an account recovery process

3.3. Create Announcement

UC-3	Create Announcement
Related Requirements:	UC-1, Users are either in a course or are instructing a course, UC-2
Initiating Actor:	Instructor
Actor's Goal:	Create announcements
Participating Actors:	University/School Database, Students, Instructors
Preconditions:	The Instructor has an account, and also is participating in courses and is logged in

Post-conditions:	The Student/Instructor is shown their announcements
Flow of Events for Main Success Scenario:	
1	UC-1
2	User navigates to announcement page
3	User selects course and clicks “Create Announcement”
4	User enters the desired announcement notice and clicks post
5	Announcement is then displayed to all those specified within the Instructor’s course
Flow of Events for Extensions (Alternate Scenarios): What could go wrong? List the exceptions to the routine and describe how they are handled	
1	Scenario Description: Create announcement failure Flow of events for this scenario: 1 UC-1 2 User navigates to announcement page 3 User clicks “Create Announcement” 4 User enters desired announcement notice and clicks post 5 Announcement creation failed either due to database failure or lack of target course selection

3.4. Administrator view

UC-4	Administrator view
Related Requirements:	Actor has an administrators account/credentials
Initiating Actor:	System Administrators

Actor's Goal:	To view the perspective of a Student/Instructor
Participating Actors:	University/School Database, System Administrator
Preconditions:	Administrator is logged into campusCall
Post-conditions:	To access an account from a Student/Instructors point of view
Flow of Events for Main Success Scenario:	
1	Administrator logs into campusCall
2	The system displays the administrators dashboard
3	Administrator is now able to make changes
4	The system will accept and display the new changes
5	Administrator can view the perspective of a Student/Instructor
6	The system will display the admins choice of perspective
Flow of Events for Extensions (Alternate Scenarios):	
What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<p>Scenario Description: Actor enters invalid data.</p> <p>Flow of events for this scenario:</p> <ul style="list-style-type: none"> 1 System prompts to enter their data again 2 System also prompts a username/password change button 3 System will check new data against old to deny reused data 4 System will accept new data if it is unique

3.5. Creating a poll

UC-5	Creating a poll
Related Requirements:	UC-1, UC-2, Instructor is viewing a course they teach
Initiating Actor:	Instructor

Actor's Goal:	The instructor initiates a poll to their class to receive feedback
Participating Actors:	Instructor, Students
Preconditions:	The instructor is logged in & the instructor is currently teaching a course
Post-conditions:	A poll is created and pushed to their students
Flow of Events for Main Success Scenario:	
1	Instructor creates a poll
2	The system creates a poll to the instructor specifications
3	system (a) sends the poll to the students, (b) collects results, and (c) shows results to instructor
Flow of Events for Extensions (Alternate Scenarios):	
What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<p>Scenario Description: The instructor enters wrong information into the polls parameters</p> <p>Flow of events for this scenario:</p> <ol style="list-style-type: none"> 1 The system recognizes invalid input was given 2 The system prompts an error message specifying the invalid information 3
2	<p>Scenario Description: The instructor wants to cancel making a poll</p> <p>Flow of events for this scenario:</p> <ol style="list-style-type: none"> 1 The system prompts the instructor with a confirmation screen 2 Depending on the response the system will (a) either delete the poll or (b) null the cancellation

3.6. Using a poll

UC-6	Using a poll
Related Requirements:	UC-1, UC-2, Student is viewing a course
Initiating Actor:	Student
Actor's Goal:	Respond to a poll and give feedback

Participating Actors:	Instructor, Student
Preconditions:	The instructor sends a poll to the class
Post-conditions:	The student fills out the poll
Flow of Events for Main Success Scenario:	
1	Instructor creates a poll
2	System displays the created poll to the class
3	Students complete the poll
4	System (a) collects responses, and (b) displays them to the instructor
5	...
Flow of Events for Extensions (Alternate Scenarios):	
What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<p>Scenario Description: actor enters no data.</p> <p>Flow of events for this scenario:</p> <ul style="list-style-type: none"> 1 The system recognizes no input was given 2 The system will not add the empty input into final feedback

3.7. Add Event

UC-7	Add Event
Related Requirements:	User login, Creating Events.
Initiating Actor:	Instructor , Administrator
Actor's Goal:	To add a new event for a specific class or course
Participating Actors:	Instructor, Student, and Administrator .

Preconditions:	The Instructor/Administrator is logged in. And The Instructor has at least 1 active course
Post-conditions:	An event will be posted at the announcement page of the students that are in the roster of the courses the instructor marks.
Flow of Events for Main Success Scenario:	
1	The Instructor clicks on the calendar icon from the dashboard
2	The system displays the Instructors calendar
3	The Instructor clicks on the add event button
4	The system displays a screen to allow the instructor to choice the time, date, and title of the event
5	The Instructor choices the time, date, and title of the event
6	The system displays a list of the current active courses the instructor has.
7	The Instructor marks the courses that are part of that event.
8	The system posts the event on the announcement page of the students that are in the roster of the courses the instructor marks
Flow of Events for Extensions (Alternate Scenarios):	
What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<p>The Instructor enters an already occupied time, date, or title</p> <p>Flow of events for this scenario:</p> <ol style="list-style-type: none"> 1. The system will display a message indicating that the (time and date or title) is already occupied 2. The instructor goes back to the previous screen to choose a different time, date, or title

3.8. Edit event

UC-8	Edit event
Related Requirements:	User login, Creating Events, Editing and removing Events.
Initiating Actor:	Instructor, Administrator
Actor's Goal:	Editing an existing event
Participating Actors:	Instructor, Student, Administrator
Preconditions:	The Instructor is logged in, The Event was created by the same Instructor The Administrator is logged in.
Post-conditions:	The event will be edited on the announcement page of the audience of the edited event.

Flow of Events for Main Success Scenario:	
1	The Instructor clicks on the calendar icon from the dashboard
2	The system displays the Instructors calendar
3	The Instructor clicks on an existing event
4	The system displays a screen to allow the instructor to edit the time, date, or title of the event With a button for deleting the event.
5	The Instructor edits the time, date, or title of the event
6	The system displays a list of the current courses that the instructor has with the courses that that the original event was sent to marked.
7	The Instructor marks or unmarks the courses that are part of that event.
Flow of Events for Extensions (Alternate Scenarios):	
What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<p>Scenario Description: In case the instructor wanted to delete an event</p> <p>Flow of events for this scenario:</p> <ol style="list-style-type: none"> 1. The Instructor clicks on the calendar icon from the dashboard 2. The system displays the Instructors calendar 3. The Instructor clicks on an existing event 4. The system displays a screen to allow the instructor to edit the time, date, or title of the event with a button for deleting the event. 5. The Instructor clicks on the delete event button. 6. The event is deleted from the announcements and calendar.
2	<p>Scenario Description: In case the Administrator was the actor</p> <p>Flow of events for this scenario:</p> <ol style="list-style-type: none"> 1. The Administrator chooses an Instructor 2. Opens the calendar of the Instructor 3. follows the same flow as the main scenario

3.9. Change Profile Picture

UC-9	Change Profile Picture
Related Requirements:	UC-1
Initiating Actor:	Student/Instructor
Actor's Goal:	To edit and set a profile picture for account
Participating Actors:	School Database
Preconditions:	User is logged in, and is in their settings
Post-conditions:	User now has a suitable picture for identification or pure customization

Flow of Events for Main Success Scenario:	
1	UC-1
2	The user clicks on settings, moving onto the settings page
3	User clicks “Change Profile Picture” and a prompt comes up regarding the options
4	User selects desired Profile picture from a list of images on their Computer or Phone
5	Profile picture has been updated through school database and user returns to the settings page
Flow of Events for Extensions (Alternate Scenarios):	
What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<p>Scenario Description: No picture to select from</p> <p>Flow of events for this scenario:</p> <ol style="list-style-type: none"> 1. User clicks on settings, moving onto the settings page 2. User clicks “Change Profile Picture” and a prompt comes up regarding the options 3. User has no available pictures to update Profile picture
2	<p>Scenario Description: Profile Picture fails to update</p> <p>Flow of events for this scenario:</p> <ol style="list-style-type: none"> 1. User clicks on settings, moving onto the settings page 2. User clicks “Change Profile Picture” and a prompt comes up regarding the options 3. User’s selected option is unsupported by system (too big of a file perhaps)

3.10. Send message

UC-10	Send Message to User
Related Requirements:	UC-1
Initiating Actor:	Student/Instructor
Actor’s Goal:	This user will contact another user for their own purposes
Participating Actors:	School Database
Preconditions:	User is logged in and on dashboard
Post-conditions:	Message will be sent and received by other user, along with real time update response
Flow of Events for Main Success Scenario:	

1	UC-1
2	The user clicks on “Inbox” and goes to the message/email page
3	User scrolls through list of people or types in the name of desired person to message
4	User clicks on target user name and constructs a message
5	User clicks send and the message is transported over school database
6	Target user receives message
Flow of Events for Extensions (Alternate Scenarios): What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<p>Scenario Description: Selected User can no longer receive messages</p> <p>Flow of events for this scenario:</p> <ol style="list-style-type: none"> 1. UC-1 2. User clicks on “Inbox” and goes to message/email page 3. User scrolls through list of people or types in the name of desired person to message 4. User selects target user and constructs a message 5. User clicks send and attempts to reach targeted user over school database 6. Targeted user is no longer available (Possibly due to graduation or transfer)

3.11. Add Calendar reminder

UC-11	Add Calendar Reminder
Related Requirements:	UC-1
Initiating Actor:	Student/Instructor
Actor’s Goal:	This will allow the user to receive a remind for important dates set
Participating Actors:	School Database, Google Calendar
Preconditions:	User is successfully logged in and on dashboard
Post-conditions:	User will have their calendar set to remind them of a particular date
Flow of Events for Main Success Scenario:	

1	UC-1
2	The user will select Calendar and move onto its page
3	They will then cycle through dates until they find and view the desired one, selecting it
4	Upon selection, they will be able to add a description for the particular calendar slot
5	User will then click “Set Reminder”
6	Now the reminder will be set both through the School Database and Google calendar, linking to their email/gmail used for login
7	Upon nearing the date, user will receive reminder/notification prior to the selected time through both the school site and their email/gmail
Flow of Events for Extensions (Alternate Scenarios): What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<p>Scenario Description: Overlapping or unavailable dates</p> <p>Flow of events for this scenario:</p> <ol style="list-style-type: none"> 1. UC-1 2. User will select Calendar and move onto its page 3. User will cycle through dates until desired one is found, selecting it 4. Upon selection, they will be able to add a description for the particular calendar slot 5. Calendar slot is already filled and cannot have more added to it 6. User is then returned to date selection to look for another date

3.12. Change Dashboard Language

UC-12	Change Dashboard Language
Related Requirements:	UC-1
Initiating Actor:	Student/Instructor
Actor’s Goal:	To change the language of dashboard to the user’s preferred
Participating Actors:	School Database
Preconditions:	User is logged in and on dashboard
Post-conditions:	Dashboard is now changed to the preferred user language
Flow of Events for Main Success Scenario:	
1	UC-1

2	User clicks and moves to the settings page
3	User looks for and clicks “Select Dashboard Language”
4	User cycles through list of languages and selects the desired language
5	Dashboard is updated through list of stored languages on School Database
Flow of Events for Extensions (Alternate Scenarios): What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<p>Scenario Description: Preferred language is unavailable</p> <p>Flow of events for this scenario:</p> <ol style="list-style-type: none"> 1. UC-1 2. User clicks and moves to the settings page 3. User looks for and clicks “Select Dashboard Language” 4. User cycles through list of languages but unable to find desired language 5. User cancels selection and is returned to the settings page

3.13. Add Grade

UC-13	Add Grade
Related Requirements:	UC-1
Initiating Actor:	Instructor
Actor’s Goal:	The Instructor will add a grade for student assignments
Participating Actors:	School Database
Preconditions:	User is logged into Dashboard with Instructor privileges
Post-conditions:	A grade is assigned to a particular student or students
Flow of Events for Main Success Scenario:	
1	UC-1
2	User clicks and moves to Course page

3	On appropriate course, user selects target assignment to update
4	User selects student whose assignment grade they will update
5	User selects “add grade”
6	User enters appropriate percentage or letter grade and submits
7	Course assignment grade is updated through school database and viewable by student
Flow of Events for Extensions (Alternate Scenarios): What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<p>Scenario Description: Grade already added</p> <p>Flow of events for this scenario:</p> <ol style="list-style-type: none"> 1. UC-1 2. User clicks and moves to Course page 3. On appropriate course, user selects target assignment to update 4. User selects student whose assignment grade they will update 5. Upon attempting to add grade, the user receives notification that grade is already added and if they want to overwrite. 6. User cancels and returns to student selection

3.14. Take attendance

UC-14	Take attendance
Related Requirements:	UC-1
Initiating Actor:	Instructor/Students
Actor’s Goal:	To record attendance
Participating Actors:	School Database
Preconditions:	User is logged in with Instructor privileges
Post-conditions:	Attendance is recorded into the database.
Flow of Events for Main Success Scenario:	
1	UC-1
2	Instructor clicks on attendance tab
3	Instructor clicks take attendance and initiates attendance protocol
4	Attendance push is sent to student dashboard
5	Student enters given code received in push notification to verify attendance in class
6	System responds “Welcome to class”

Flow of Events for Extensions (Alternate Scenarios):**What could go wrong? List the exceptions to the routine and describe how they are handled**

1	Flow of events for this scenario: <ol style="list-style-type: none"> 1. UC-1 2. Instructor initiates attendance 3. Attendance push is sent to student dashboard 4. Student enters in code received incorrectly 5. System responds “invalid code” 6. Student reenters proper code 7. System validates “Welcome to class”
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3.15. Edit Role

UC-15	Edit Role
Related Requirements:	User login, Roles
Initiating Actor:	Administrator
Actor’s Goal:	To assign a the Role of an instructor, student, or Administrator to an account
Participating Actors:	Student, Instructor
Preconditions:	The Administrator should be logged in. The account that will change roles should exist.
Post-conditions:	The account will be assigned a new role.
Flow of Events for Main Success Scenario:	
1	The Administrator clicks on the settings from the dashboard.
2	The system displays the settings page
3	The Administrator clicks on website database
4	The system displays a the list of accounts on the website
5	The Administrator clicks on an account from the list
6	The system displays the profile of the account
7	The Administrator can choose a new role for the account

3.16. Download course syllabus

UC-16	Access course syllabus
Related Requirements:	UC-1
Initiating Actor:	Student
Actor's Goal:	Download course syllabus
Participating Actors:	Student
Preconditions:	User is either a student enrolled into the class or Instructor of said class
Post-conditions:	campusCall displays the course syllabus (.pdf/.doc/.docx/.txt)
Flow of Events for Main Success Scenario:	
1	UC-1
2	Student selects class tab
3	Student clicks on "course syllabus"
4	System displays course syllabus in HTML format, with option of downloading (.pdf/.doc/.docx/.txt)
5	Student successfully downloads or views syllabus by clicking download
Flow of Events for Extensions (Alternate Scenarios):	
What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<ol style="list-style-type: none"> UC-1 Student selects course tab Student clicks on "course syllabus" Student downloads file

	5. File download has failed (poor internet connection) 6. System notifies user “download failed” 7. Student selects to download again using a different network connection 8. Student successfully downloads
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3.17. Upload course syllabus

UC-17	Upload course Syllabus
Related Requirements:	UC-1, syllabus in .pdf/.doc/.docx/.txt format
Initiating Actor:	Instructor
Actor’s Goal:	Upload course syllabus
Participating Actors:	Instructor
Preconditions:	Instructor is enrolled as “Instructor ” role within selected course
Post-conditions:	Course syllabus is accessible/viewable by students within the course dashboard.
Flow of Events for Main Success Scenario:	
1	UC-1
2	Instructor selects “course syllabus”
3	Instructor selects “add course syllabus”
4	System prompts user to select a local file to upload (.pdf/.doc/.docx/.txt)
5	File is selected and Instructor selects upload
6	Syllabus is showing where “add course syllabus” was previously showing
Flow of Events for Extensions (Alternate Scenarios):	
What could go wrong? List the exceptions to the routine and describe how they are handled	
1	UC-1
2	Instructor selects “course syllabus”
3	System prompts user to select a local file to upload (.pdf/.doc/.docx/.txt)

4.	Instructor selects invalid file
5	Systems initiates file prompt again, user then selects the properr local file to upload.
6.	Instructor uploads proper file and is confirmed by “successfully uploaded” message

3.18. Respond to a Team Invite

UC-18	Respond to a Team Invite
Related Requirements:	UC-1
Initiating Actor:	Student
Actor’s Goal:	Accept an invite for a team that is created by another student
Participating Actors:	Student
Preconditions:	The student is logged in. and received an invite to join a team
Post-conditions:	The student will be part of the team.
Flow of Events for Main Success Scenario:	
1	The student clicks on the communication from the dashboard
2	The system will open the communication page
3	The student will respond to the request from a team that invited the student with an acceptance
4	The system adds the student to the team
Flow of Events for Extensions (Alternate Scenarios):	
What could go wrong? List the exceptions to the routine and describe how they are handled	
1	<p>Scenario Description: In case the student rejected the invite</p> <p>Flow of events for this scenario:</p> <ol style="list-style-type: none"> 1. The student clicks on the communication from the dashboard 2. The system will open the communication page 3. The student will respond to the request from a team that invited the student with a rejection 4. The system removes the invite the student to the team

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3.19. Change password

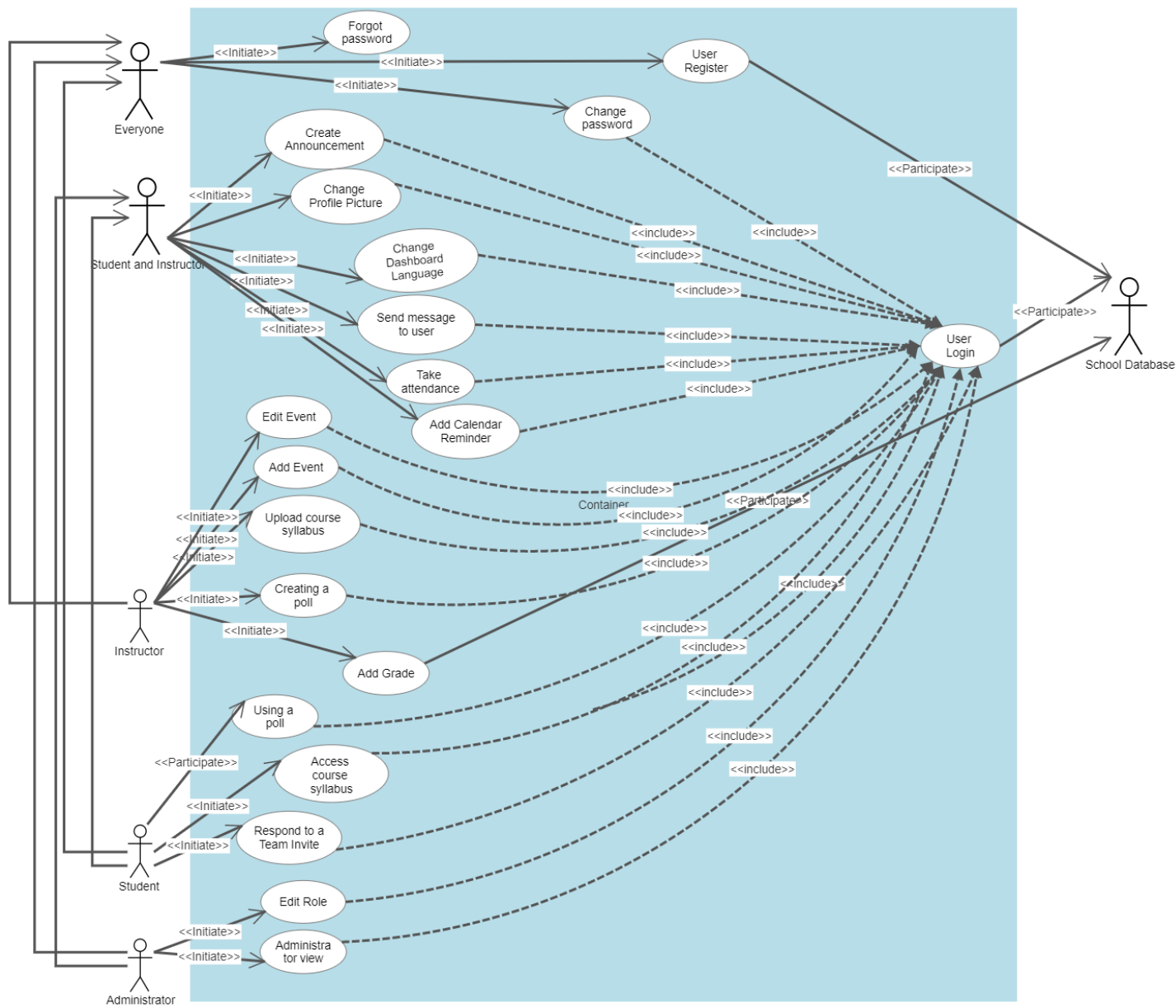
UC-19	Change password
Related Requirements:	UC-1
Initiating Actor:	Student/Instructor/Administrator
Actor's Goal:	Change password
Participating Actors:	School Database
Preconditions:	User has access to account
Post-conditions:	Password is changed and account is accessible
Flow of Events for Main Success Scenario:	
1	UC-1
2	User selects cogwheel icon (settings) top right of screen
3	User selects change password option
4	System prompts window with 3 textboxes, current password, new password and repeat password
5	User fills information
6	System confirms password has been changed
7	System sends notification to email associated with the account of password change.
Flow of Events for Extensions (Alternate Scenarios):	
What could go wrong? List the exceptions to the routine and describe how they are handled	
1	UC-1
2	User selects cogwheel icon (settings) top right of screen
3	User selects change password option
4	System prompts window with 3 textboxes, current password, new password and repeat password
5	User fills information
6	New password does not meet password complexity requirement, systems notifies user stating error
7	User enters password complexity requirement, System confirms password has been changed

8	System sends notification to email associated with the account of password change.
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3.20. Forgot password

UC-20	Forgot password
Related Requirements:	UC-2, UC-19
Initiating Actor:	Student, Instructor, Administrator
Actor's Goal:	Retrieve forgotten password
Participating Actors:	School database
Preconditions:	User has account created
Post-conditions:	User is able to log into the account that was already created.
Flow of Events for Main Success Scenario:	
1	User has registered account
2	User goes to www.campuscall.com
3	User selects "forgot password" underneath credential text boxes
4	User is prompted with a textbox requiring the user's email associated with campusCall account
5	Temporary code is sent to email
6	User enters temporary code into page, which is now asking for a temporary code
7	UC-19

4. Use Case Diagram



5. Definitions and Acronyms

Term	Definition
API	Application Programming Interface
SQL	The language being used to query, access, and modify our database.
UC	Use Case