Project Part 2

1. Team:

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2. Title: CUConnect

3. Project Summary:

CUConnect is an online portal for CU students and past pupils to connect with each other. It is a social media prototype for such a portal. In this portal, the users can connect and share content such as photos and status. The other users will have the ability to view these photos and status. They will also be able to make comments and Thumbsup a post.

Actors: User, Admin

The backend of the system will be implemented using Java. We have tried to be as detailed as we can foresee as of now. As and when modifications are needed, the documents and diagrams will be updated. A database will be implemented too

4. Project Requirements:

User Requirements					
ID	DESCRIPTION	USER	PRIORITY		
UR-01	As a new user I should be able to register and create an account	User	Low		
UR-02	As an existing user I should be able to login to the system	All actors	Low		
UR-03	As an existing user I should be able to add comments on other user's profile contents	All actors	Low		
UR-04	As an existing user who is an admin, I should be able to review and delete objectionable comments	Admin	Low		
UR-05	As an existing user I should be able to add content to my account	All actors	Low		
UR-06	As an existing user as an admin I should be able to delete any content of another user	Admin	Low		
UR-07	As an existing user I should be able to search user based on filters	All actors	Low		
UR-08	As an existing user I should be able to add other users as friends	User	Low		
UR-09	All actors should be able to delete their accounts	All actors	Low		
UR-10	As an existing user I should be able to delete another user's account	Admin	Low		
UR-11	As an existing user I should be able to view another user's full content if he's added as a friend	User	Low		
UR-12	As an existing user I should be able to thumbs up/down to another friend's content	User	Low		
UR-13	As a user, I should be able to edit my content	User	Low		
UR-14	As a user, I should be able to change privacy settings	All actors	Low		

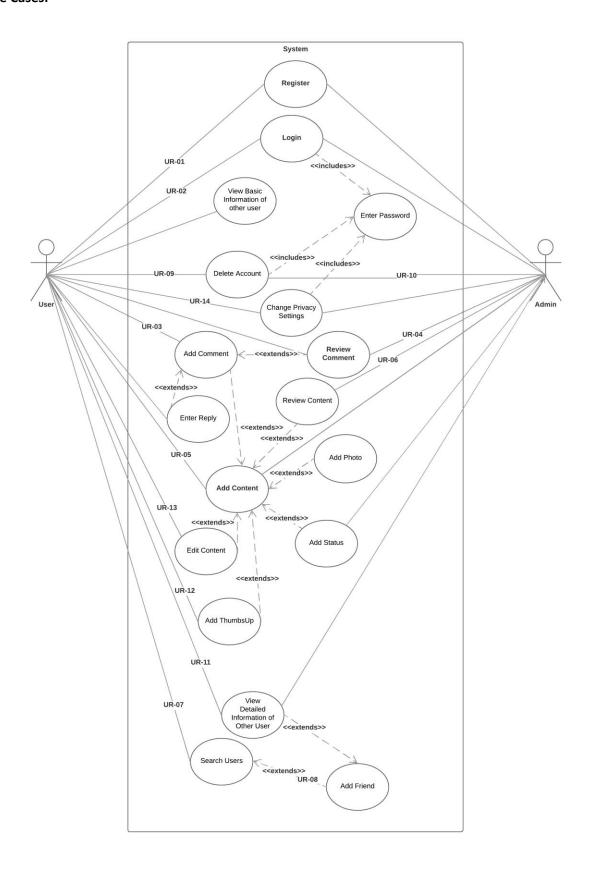
ID	DESCRIPTION	TOPIC AREA
BR-01	Project must be implemented in Java using Object Oriented Design	Implementation
	practices	
BR-02	It should be a standalone application	Implementation

BR-03	It should have a central repository in Github and it should be versioned controlled through git	Implementation
BR-04	The code should be refactored to follow industry recognized design patterns	Implementation

Functional Requirements					
ID	DESCRIPTION	TOPIC AREA	PRIORITY		
FR-01	Authentication of all users is performed using login and password	Authentication	Low		
FR-02	All users should be able to modify their privacy settings	Authentication	Low		
FR-03	Only CU-Boulder students, staff and alumni are allowed to set up an account	Accounts	High		
FR-04	Users should be able to search other users based on various filter settings such as graduation year, location and major	Search	High		

Non-Functional Requirements					
ID	DESCRIPTION	USER	PRIORITY		
NFR-01	Passwords can be stored after encrypting	Authentication	High		
NFR-02	The system should be available all day	Reliability	High		
NFR-03	The system should be able to support n users simultaneously	Performance	High		
NFR-04	The system should generate periodic logs about new users	Stats	Medium		
	and the amount of data added to the database				

5. Use Cases:



Use Case Documents

Use Case ID:	UC-01
Use Case Name:	Register a User
Description:	Register a new user. Create a new login for this user when a guest signs up

Actors:	All Actors		
Pre-conditions:	User	does not have an account	
Post-Conditions:	User	will have an account and can login	
Frequency of Use:	Every	time a guest user wants to be regist	ered on the system
Flow of Events:		Actor Action	System Response
	1	Select Sign-Up	Show Sign-Up Screen
	2	Enter user information:	Store the entered information into
		username, password, Name,	a database
		Address, Date of Birth	
	3		Authenticate the email id.
	4	User can login	
Variations:			
Exceptions:	New account creation would fail if the account exists. If username exists, ask		
	for new username		
Developer Notes:			

Use Case ID:	UC-02
Use Case Name:	Login
Description: Registered user can login to the system	

Actors:	All actors		
Pre-conditions:	User is not currently logged into the system		
Post-Conditions:	User i	s logged into the system	
Frequency of Use:	Every	time a user wants to log into the sys	tem
Flow of Events:		Actor Action	System Response
	1	User enters username and password	Authenticates the credentials
	homepage 3 If authentication fails, di		If authentication succeeds, open homepage
			If authentication fails, display error message to the user
	4	4 Ask user to reenter detail	
			Signup
Variations:	Provide a means of handling forgotten password		
	System requests user to enter email address to send password reset		
	instructions		
	User enters email address		

	System sends the password reset instructions to the email address
	User resets password
	New password is stored in system
	System asks users to login with new credentials
Exceptions:	Lock user account temporarily if the wrong credentials are entered more than
	5 times
Developer Notes:	

Use Case ID:	UC-03	
Use Case Name: Adding a friend		
Description: The logged in user wants to add a friend who is already registered in		
	system	

Actors:	User		
Pre-conditions:	User is logged in		
Post-Conditions:	The o	ther user is added as a friend	
Frequency of Use:	Anytii	me the user requests	
Flow of Events:		Actor Action System Response	
	1	Enter other user's name in search	Search database
		box	
	2		If user not found, display error
			finding user
	3		If user found, check friendship
			between users.
	4	Adds other user as friend	If users are not friends, ask the
			user to add the other user as
			friend
			Display detailed content of other
			user
Variations:	If users are already friends display the content of the other user		
Exceptions:	User can choose to not add the person as friend and just view basic		
	information		
Developer Notes:			

Use Case ID:	UC-04
Use Case Name:	Adding content
Description:	The user can add personal content

Actors:	User,	User, Admin		
Pre-conditions:	User i	User is logged in		
Post-Conditions:	Conte	nt available to all friends		
Frequency of Use:	Anytiı	me		
Flow of Events:		Actor Action	System Response	
	1		Displays homepage with button to add content	
	2	Clicks type of content to add	Confirm the visibility of content as basic or detailed	
	3	Chooses type of content	Enters content into the database	
Variations:	User can choose to add content of the form status or photo			
Exceptions:	Admin can only add status content			
Developer Notes:		·	·	

Use Case ID:	UC-05			
Use Case Name: Making comment and editing comments				
Description: Comments can be added to the content posted				

Actors:	User,	User, Admin			
Pre-conditions:	Content is present				
Post-Conditions:	Comment is posted				
Frequency of Use:	Wher	the user wants to post a comment			
Flow of Events:		Actor Action System Response			
	1	The user searches for other	Checks if user is friends with other		
		user's content	user		
	2		Display Basic Content if not friend.		
	3		Displays Detailed Content if friend		
	4	User adds comment	Checks if content is still present		
	5		System adds comment if content		
		is still present			
	6	User edits comment	Check if user owns comment		
	7		If user owns comment save		
			comment		
	8	View error message	If user doesn't own comment,		
			display error message		
Variations:	2. The User cannot comment if not a friend. Go to UC-03 to add user as				
	friend.				
Exceptions:	4. If content is deleted by the time comment is made, the system responds				
	with error message				
	6. User may not own comment to edit				

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Developer Notes:	
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Use Case ID:	UC-06
Use Case Name:	Delete content
Description:	The content can be removed

Actors:	User	User who owns content, admin		
Pre-conditions:	Conte	Content is present		
Post-Conditions:	The C	ontent is removed		
Frequency of Use:				
Flow of Events:		Actor Action	System Response	
	1	Content owner marks the	Confirm whether content is to be	
		content for deletion	removed.	
	2	Approves removal of content	Removes content from the system	
	3		Update the content of the User	
	4			
Variations:	Admin can delete any users content that is found objectionable			
Exceptions:			_	
Developer Notes:				

Use Case ID:	UC-07
Use Case Name:	Delete comments
Description: The users and admin have the ability to delete content they own	

Actors:	User	User who owns comment		
Pre-conditions:	Comment is present			
Post-Conditions:	Comn	nent is deleted		
Frequency of Use:				
Flow of Events:		Actor Action	System Response	
	1	User marks the comment for	The system checks if user owns	
		deletion	the comment	
	2	User confirms deletion of	If user owns comment, ask for	
		comment	confirmation	
	3		The system deletes the comment	
	4		The system checks for replies to	
			comment and deletes the string of	
			replies	
Variations:				
Exceptions:				
Developer Notes:				

Use Case ID:	UC-08
Use Case Name:	Change privacy settings of user
Description:	

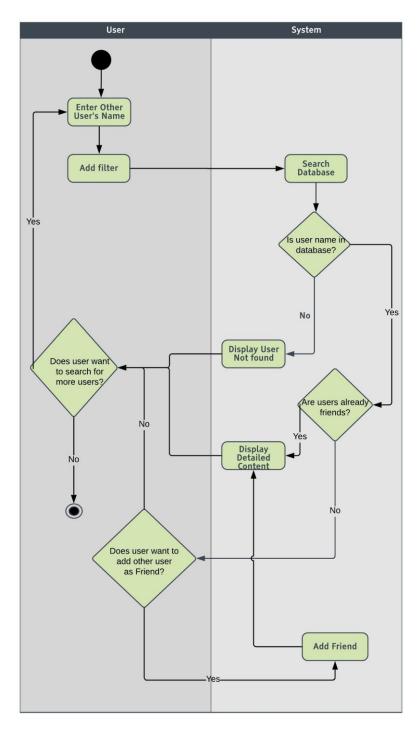
Actors:	User,	User, Admin			
Pre-conditions:	User i	User is registered and logged in			
Post-Conditions:	Settin	gs modified			
Frequency of Use:					
Flow of Events:		Actor Action System Response			
	1	User requests to change settings	Request for password again		
	2	Enters password	Checks credentials		
	3	3 Display settings page			
	4	Makes necessary changes to	Saves changes to settings		
		settings			
Variations:	Admin can change all users settings simultaneously				
Exceptions:			_		
Developer Notes:			_		

6. Activity Diagrams:

Use Case Name: Adding a friend

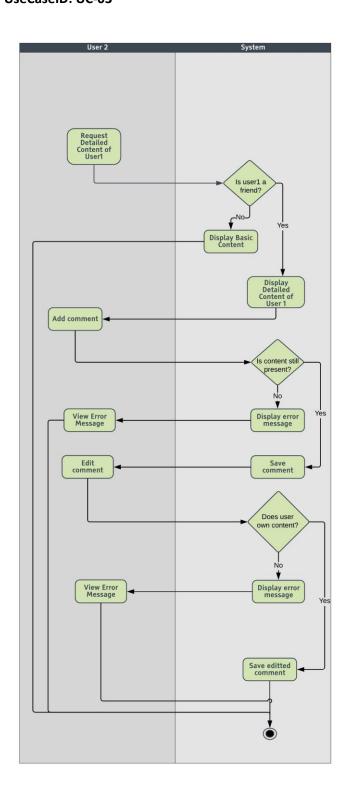
RequirementID: UR-08

UseCaseID: UC-03

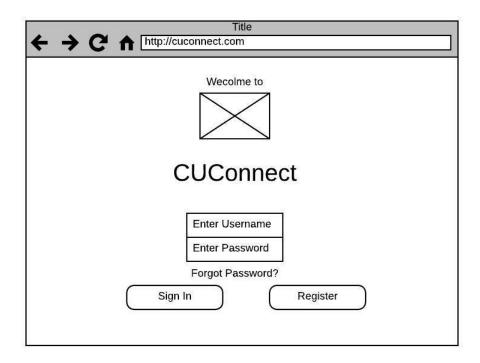


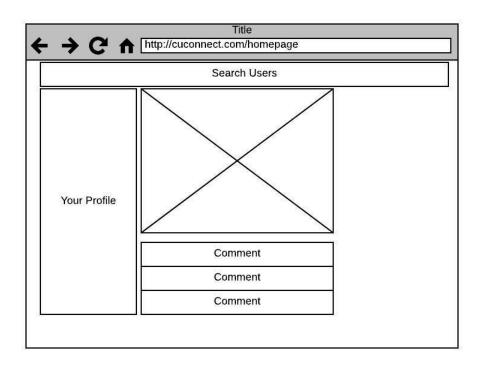
Use Case Name: Making comment and editing comments

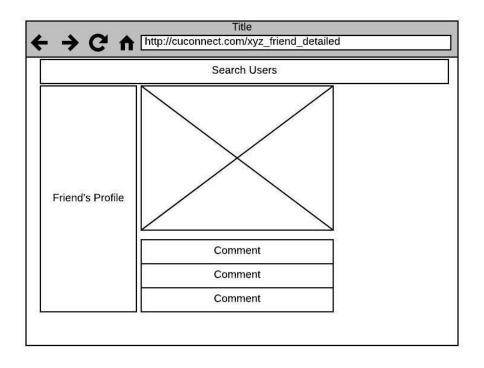
RequirementID: UR-03 UseCaseID: UC-03



UI Mockups



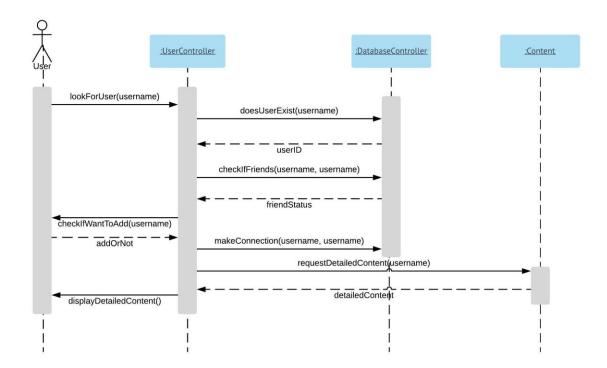




Sequence Diagram for adding friend:

Use Case Name: Adding a friend

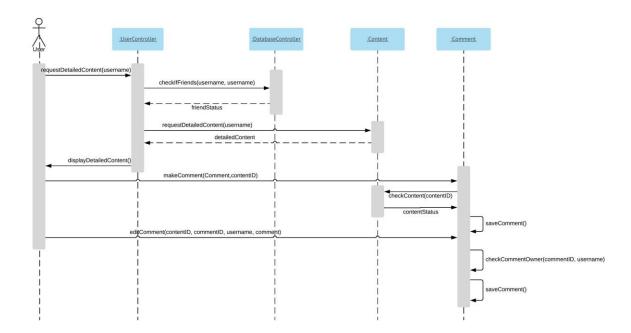
RequirementID: UR-08 UseCaseID: UC-03



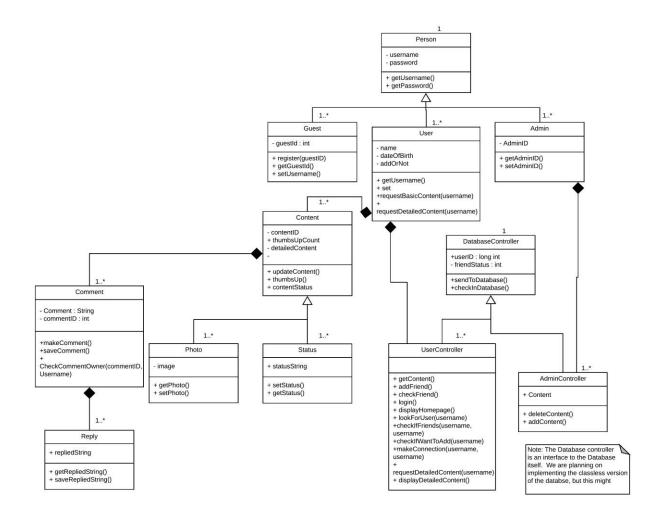
Sequence Diagram for making comments:

Use Case Name: Making comment and editing comments

RequirementID: UR-03 UseCaseID: UC-03



Class Diagram:



For Datastorage, we plan to use Hibernate with MySQL. This will be changed/Modified based on the requirements for the project.