

## Project Part 2 – INDIVIDUAL

- **Name:** Rajarshi Basak
- **Project:** ChatApp
- **Requirements:**

ID	Requirement Description	Topic Area	Actor	Priority
US – 01	As a user, I should be able to register for the service	Authentication	User	Critical
US – 07	As a user, I should be able to add a new contact to my contact list	Contact Management	User	High
US – 08	As a user, I should be able to remove an existing contact from my contact list	Contact Management	User	High
US - 09	As a user, I should be able to accept a request to add a contact	Contact Management	User	High
US – 10	As a user, I should be able to view my contact list	Contact Management	User	High
US – 11	As a user, I should be able to select a contact from my contact list	Contact Management	User	High
US – 12	As a user, I should be able to search a contact from my contact list	Contact Management	User	Medium
US – 13	As a user, I should be able to start a chat with a selected contact	Messaging	User	High
US – 14	As a user, I should be able to resume a chat with a selected contact when I have already started a chat	Messaging	User	High
US – 15	As a user, I should be able to delete a chat with a selected contact	Messaging	User	High

- **Use Case Document(s):**

<b>Use Case ID:</b>	UC – 01
<b>Use Case Name:</b>	Register user for service
<b>Description:</b>	A first time user can register for the service by providing a unique and valid username and a valid password

<b>Actors:</b>	User		
<b>Pre-conditions:</b>	A user must have a gmail.com or Colorado.edu email address for username, and the password must have at least 8 characters containing the following: at least 1 lowercase letter, at least 1 uppercase letter, at least 1 digit, at least 1 special character		
<b>Post-conditions:</b>			
<b>Frequency of Use:</b>	Once, before the user wants to start using the service		
<b>Flow of Events:</b>		<b>User Action</b>	<b>System Response</b>
	1.	Go to “Register New User” page	Show prompt for setting new username and password
	2.	Set new username	
	3.	Set new password	
	4.	Click on register button	Show ‘Welcome New User’ page
<b>Variations:</b>			Show Register page when username does not meet all valid requirements/already exists
			Redirect to Register page when password does not meet all valid requirements
<b>Notes and Issues:</b>			
<b>Developer Notes:</b>			

<b>Use Case ID:</b>	UC - 07
<b>Use Case Name:</b>	Add user to contact list

<b>Description:</b>	A user of the service can add a new user to his/her contact list
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<b>Actors:</b>	User	
<b>Pre-conditions:</b>	The user must login to the system, and should know the username of the user he/she wishes to add to the contact list	
<b>Post-conditions:</b>		
<b>Frequency of Use:</b>	Once daily	
<b>Flow of Events:</b>		<b>User Action</b>
	1.	Click on Manage Contacts
	2.	Click "Add User"
	3.	Enter <username> of new user that exists in system database
	4.	Click "Add"
<b>Variations:</b>		
	3. Enter username that does not exist in System database	
<b>Notes and Issues:</b>		
<b>Developer Notes:</b>		

<b>Use Case ID:</b>	UC – 08
<b>Use Case Name:</b>	Remove user from Contact List
<b>Description:</b>	A user of the service can remove an user who exists in his/her contact list

<b>Actors:</b>	User	
<b>Pre-conditions:</b>	The user must login to the system	
<b>Post-conditions:</b>		
<b>Frequency of Use:</b>	Once a month	
<b>Flow of</b>		<b>User Action</b>
	1.	Click on Manage Contacts
		<b>System Response</b>
		Show Manage

Events:			Contacts page
	2.	Click on Remove User	Redirect to Contact List
	3.	Select User to be removed	
	4.	Click “Remove”	Prompt for Confirmation of removal
	5.	Verify confirmation of removal	Remove user from Contact List
			Show “Success! User Removed from Contact List”
Variations:	5. Deny confirmation of removal	Show Manage Contacts page	
Notes and Issues:			
Developer Notes:			

<b>Use Case ID:</b>	UC – 09
<b>Use Case Name:</b>	Accept request to add user
<b>Description:</b>	When user 1 adds a new user (user 2) to his/her contact list, user 2 can accept the request.

Actors:	User		
Pre-conditions:	Both user 1 and user 2 should login to the system, and user 1 should request to add user 2 to his/her contact list		
Post-conditions:			
Frequency of Use:	Once a week		
Flow of Events:		User Action	System Response
	1.	Click on Manage Contacts	Show Manage Contacts page
	2.	Click on “Approve Requests”	Show add request from other user(s)
	3.	Select Request	
	4.	Click “Approve”	Add user to contact List Show “Request approved and User added!”
Variations:			2. Show “No requests pending!”
	4. Click “Reject”		Show Manage Contacts page
			Remove pending request list

<b>Notes and Issues:</b>	
<b>Developer Notes:</b>	

<b>Use Case ID:</b>	UC – 10
<b>Use Case Name:</b>	View Contact List
<b>Description:</b>	A user of the service can view the list of contacts that he/she has already added to contact list

<b>Actors:</b>	User		
<b>Pre-conditions:</b>	User should login to the system		
<b>Post-conditions:</b>			
<b>Frequency of Use:</b>	Every hour		
<b>Flow of Events:</b>		<b>User Action</b>	<b>System Response</b>
	1.	Click on Manage Contacts	Show Manage Contacts page
	2.	Click on “View Contact List”	Show contact list
<b>Variations:</b>			2. Show “No contacts added yet!” when there are 0 contacts in the contact list
<b>Notes and Issues:</b>			
<b>Developer Notes:</b>			

<b>Use Case ID:</b>	UC - 11
<b>Use Case Name:</b>	Select a Contact
<b>Description:</b>	An user can select a contact from his/her contact list

<b>Actors:</b>	User		
<b>Pre-conditions:</b>	User should login to the system, and there should be at least one contact in the user’s contact list		
<b>Post-conditions:</b>			
<b>Frequency of</b>	Once every 15 minutes		

<b>Use:</b>			
<b>Flow of Events:</b>		<b>User Action</b>	<b>System Response</b>
	1.	Click on Manage Contacts	Show Manage Contacts page
	2.	Click on "View Contact List"	Show Contact List
	3.	Click on a particular contact in the contact list	
	4.	Click "Select Contact"	Show page containing the option Start Chat (when a chat has not been started with that contact)
<b>Variations:</b>			4. Show page containing the following options: "Resume Chat" and "Delete Chat" (when a chat has been started with that contact)
<b>Notes and Issues:</b>			
<b>Developer Notes:</b>			

<b>Use Case ID:</b>	UC – 12
<b>Use Case Name:</b>	Search a contact
<b>Description:</b>	A user of the service can search for a contact from his/her contact list

<b>Actors:</b>	User		
<b>Pre-conditions:</b>	User must login to the system		
<b>Post-conditions:</b>			
<b>Frequency of Use:</b>	Once every hour		
<b>Flow of Events:</b>		<b>User Action</b>	<b>System Response</b>
	1.	Click on Manage Contacts	Show Manage Contacts page
	2.	Click on "Search a Contact"	Prompt for name of contact
	3.	Type name of contact	
	4.	Click "Search"	Show existing contact in Contact List when contact exists
<b>Variations:</b>			3. Show "Contact does not exist!" when contact isn't there in the list

<b>Notes and Issues:</b>	
<b>Developer Notes:</b>	

<b>Use Case ID:</b>	UC – 13
<b>Use Case Name:</b>	Start a Chat
<b>Description:</b>	An user can start a chat with a selected contact

<b>Actors:</b>	User		
<b>Pre-conditions:</b>	User should login to the service, and select a contact from the Contact List. Also a chat should not have been started with selected contact.		
<b>Post-conditions:</b>			
<b>Frequency of Use:</b>	Once every day		
<b>Flow of Events:</b>		<b>User Action</b>	<b>System Response</b>
	1.	After selecting a contact from Contact list, click on “Start Chat”	Show empty message window with selected user
	2.	Type a message in the message bar at the bottom of window	
	3.	Click on “Send Message”	Show sent message in the window
<b>Variations:</b>			
<b>Notes and Issues:</b>			
<b>Developer Notes:</b>			

<b>Use Case ID:</b>	UC – 14
<b>Use Case Name:</b>	Resume a Chat
<b>Description:</b>	An user can resume a chat (that has been started) with a selected contact

<b>Actors:</b>	User
<b>Pre-conditions:</b>	User should login to the service, and select a contact from the Contact List. Also a chat should have been started with selected contact.

<b>Post-conditions:</b>			
<b>Frequency of Use:</b>	Once every minute		
<b>Flow of Events:</b>		<b>User Action</b>	<b>System Response</b>
	1.	After selecting a contact from Contact list, click on “Resume Chat”	Show message window with selected user containing previous messages
	2.	Type a message in the message bar at the bottom of window	
	3.	Click on “Send Message”	Show sent message in the window
<b>Variations:</b>			
<b>Notes and Issues:</b>			
<b>Developer Notes:</b>			

<b>Use Case ID:</b>	UC – 15
<b>Use Case Name:</b>	Delete a Chat
<b>Description:</b>	An user can delete a chat with a selected contact

<b>Actors:</b>	User		
<b>Pre-conditions:</b>	User should login to the service, and select a contact from the Contact List. Also a chat should have been started with selected contact.		
<b>Post-conditions:</b>			
<b>Frequency of Use:</b>	Once a month		
<b>Flow of Events:</b>		<b>User Action</b>	<b>System Response</b>
	1.	After selecting a contact from Contact list, click on “Delete Chat”	Show “Are you sure you want to delete chat with this contact?”
	2.	Confirm Deletion by clicking on “Delete this Chat”	Remove chat with selected contact from database
			Show empty message window with selected chat
<b>Variations:</b>			

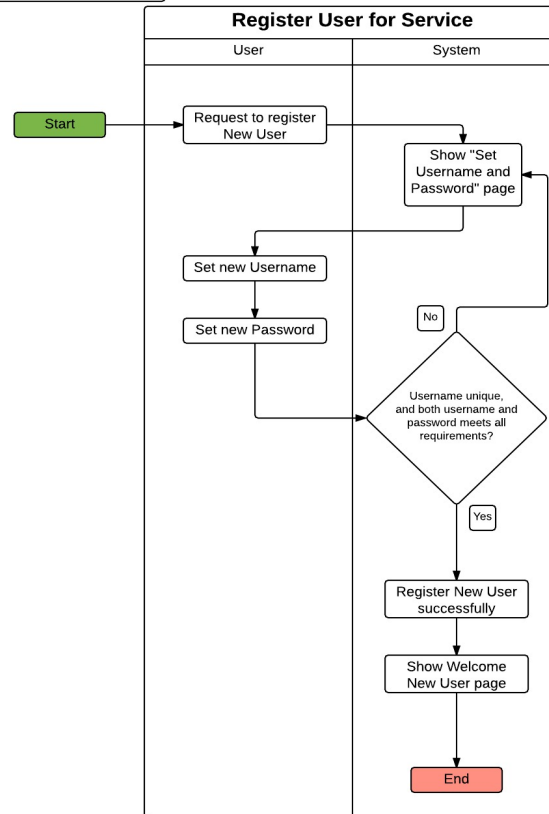


<b>Notes and Issues:</b>	
<b>Developer Notes:</b>	

- **Activity Diagram:**

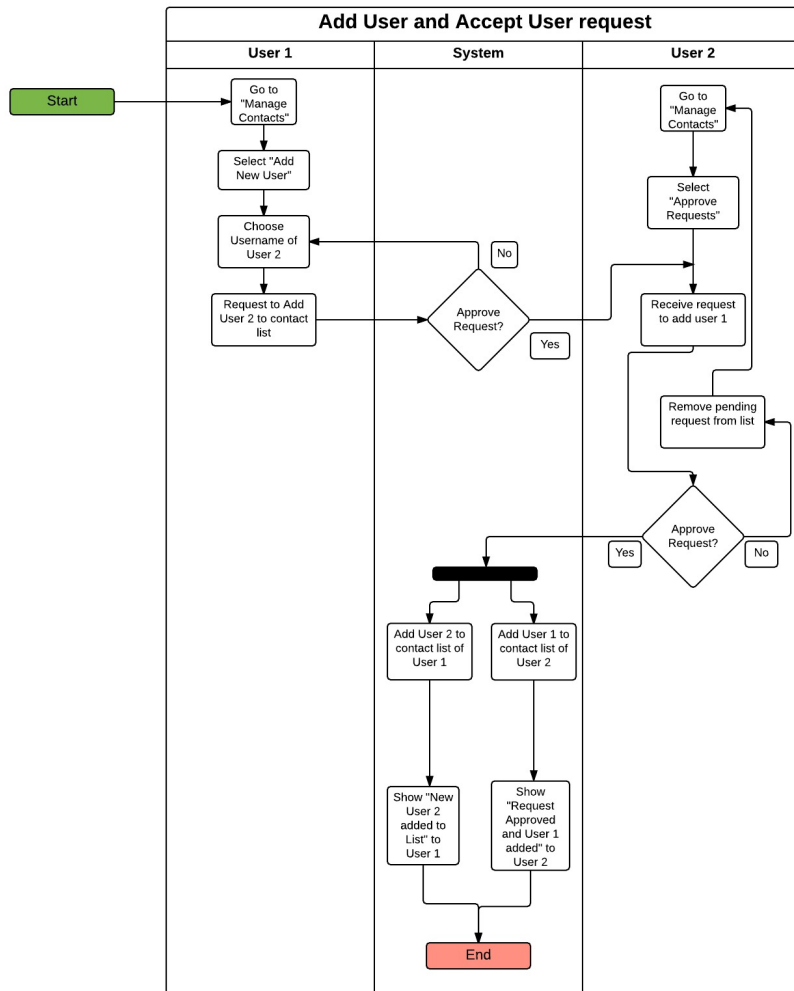
Requirement ID: US - 01  
Use Case ID: UC - 01  
Use Case name: Register user for service  
Name of Person: Rajarshi Basak

### Register user for service - Activity Diagram



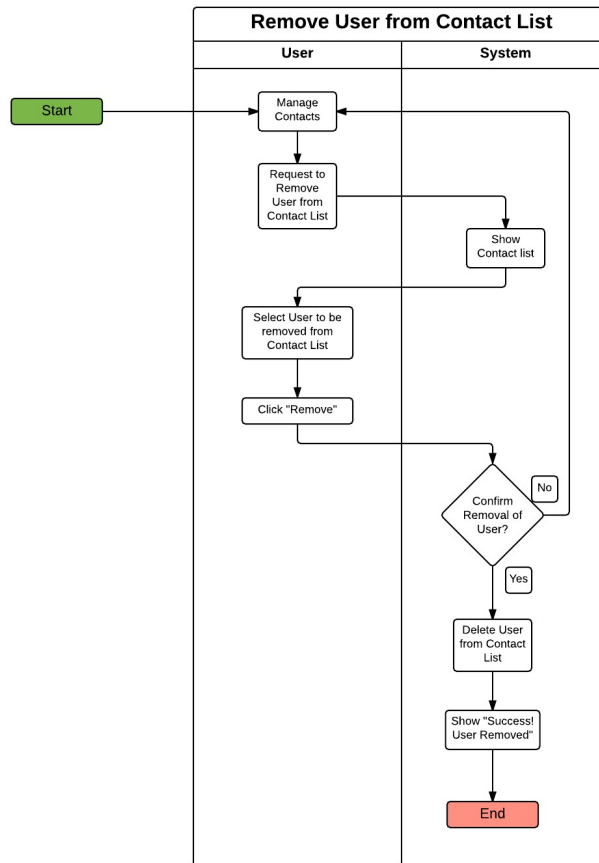
Requirement ID: US - 07, US - 09  
Use Case ID: UC - 07, UC - 09  
Use Case name: Add User to Contact List, Accept Request to Add User  
Name of Person: Rajarshi Basak

**Add User to Contact List, Accept User Request to Add User - Activity Diagram**



Requirement ID: US - 08  
Use Case ID: UC - 08  
Use Case name: Remove User from Contact List  
Name of Person: Rajarshi Basak

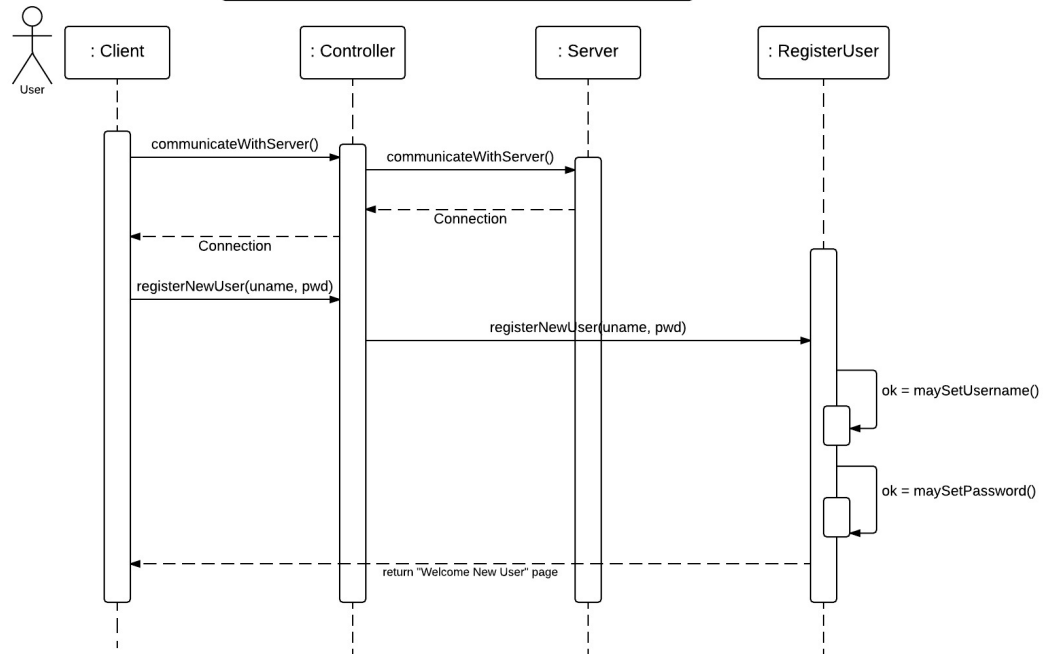
### Remove User from Contact List - Activity Diagram



- **User Interactions:**

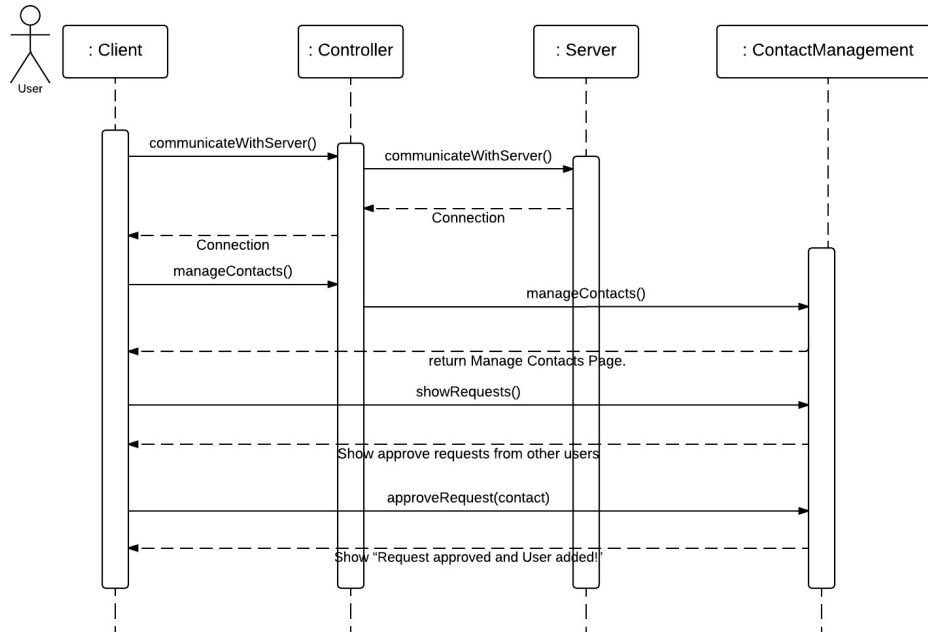
Requirement ID: US - 01  
Use Case ID: UC - 01  
Use Case name: Register user for service  
Name of Person: Rajarshi Basak

**Register user for service - Sequence Diagram**

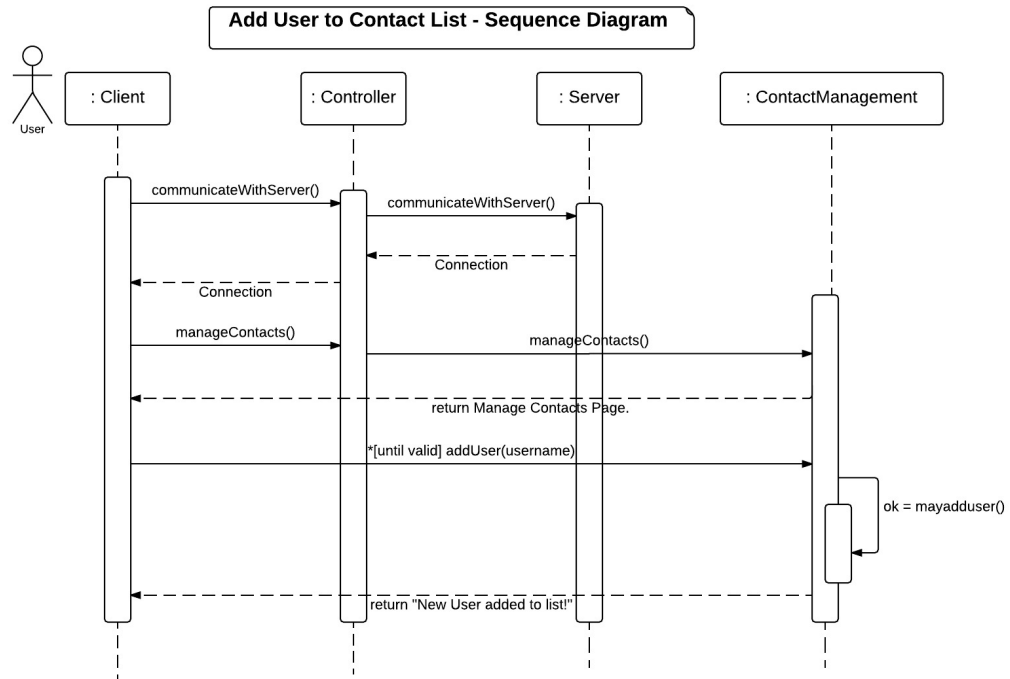


Requirement ID: US - 09  
Use Case ID: UC - 09  
Use Case name: Accept Request to Add User  
Name of Person: Rajarshi Basak

Accept User Request to Add User - Sequence Diagram



Requirement ID: US - 07  
Use Case ID: UC - 07  
Use Case name: Add User to Contact List  
Name of Person: Rajarshi Basak



Requirement ID: US - 08  
Use Case ID: UC - 08  
Use Case name: Remove User from Contact List  
Name of Person: Rajarshi Basak

### Remove User from Contact List - Sequence Diagram

