

## Come & Chat (C&C)

Use case name	
Brief description	
Primary actor	
Secondary actor	
Precondition	
Dependency	
Generalisation	
Basic flow	
Specific alternative flows	
Global alternative flows	
Bounded alternative flows	
Special requirements	

## View Data Use Case Description

Use case name	View Data
Brief description	Administrator log into the system
Primary actor	Administrator
Secondary actor	N/A
Precondition	Administrator logged in
Dependency	N/A
Generalization	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"><li>1. Administrator request to view the data</li><li>2. The C&amp;C system collects the amount of users, online users, messages sent, status and comments.</li><li>3. The C&amp;C system show the collected data</li></ol>
	<b>Post Condition:</b> The C&C show the data
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

## Sign in Use Case Description

Use case name	Sign in
Brief description	User/Administrator log into the system
Primary actor	User or Administrator
Secondary actor	N/A
Precondition	User or Administrator has an account
Dependency	INCLUDE USE CASE Count Online User Amount
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. The client provides their username and password</li> <li>2. The C&amp;C VALIDATES THAT the inputs are legal</li> <li>3. The C&amp;C VALIDATES THAT the username and password are correct.</li> <li>4. The C&amp;C approves the client.</li> <li>5. The C&amp;C performs the Count User Amount use case</li> </ol>
	<b>Post Condition:</b> The C&C signs the client in
Specific alternative flow1	Inputs are illegal
	RFS Basic Flow 3
	<b>Step:</b> <ol style="list-style-type: none"> <li>3. RESUME STEP 1</li> </ol>
Specific alternative flow2	Username or password incorrect
	RFS Basic Flow 4
	<b>Step:</b> <ol style="list-style-type: none"> <li>4. RESUME STEP 1</li> </ol>
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### View Personal Information Use Case Description

Use case name	View Personal Information
Brief description	Show the user's personal information
Primary actor	User
Secondary actor	N/A
Precondition	User logged in
Dependency	EXTENDED BY USE CASE Change Personal Information
Generalisation	N/A
Basic flow	<b>Steps:</b> 1. User request to view his/her personal information 2. The C&C show the personal information
	<b>Post Condition:</b> The C&C show the personal information
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

## Change Personal Information Use Case Description

Use case name	Changing Personal Information
Brief description	User change his/her information
Primary actor	User
Secondary actor	N/A
Precondition	User logged in
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. User edit his/her information</li> <li>2. The C&amp;C VALIDATES THAT the inputs are legal</li> <li>3. The C&amp;C VALIDATES THAT the inputs are unique</li> <li>4. The C&amp;C approves the change</li> </ol>
	<b>Post Condition:</b> The C&C change the user information
Specific alternative flow1	Inputs are illegal
	RFS Basic Flow 3
	<b>Step:</b> <ol style="list-style-type: none"> <li>3. RESUME STEP 1</li> </ol>
Specific alternative flow2	Inputs are not unique
	RFS Basic Flow 4
	<b>Step:</b> <ol style="list-style-type: none"> <li>4. RESUME STEP 1</li> </ol>
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

## Delete Status Use Case Description

Use case name	Delete Status
Brief description	User delete his/her status
Primary actor	User
Secondary actor	N/A
Precondition	User logged in & User posted at least one status
Dependency	INCLUDE USE CASE Count Status Amount
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. User delete a status</li> <li>2. The C&amp;C VALIDATES THAT the status exists</li> <li>3. The C&amp;C approves the request</li> <li>4. The C&amp;C performs Count Status Amount use case</li> </ol>
	<b>Post Condition:</b> The C&C delete the status
Specific alternative flow1	The status does not exists
	RFS Basic Flow 3
	<b>Step:</b> <ol style="list-style-type: none"> <li>3. ABORT</li> </ol>
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

## Post Status Use Case Description

Use case name	Post Status
Brief description	User post a new status
Primary actor	User
Secondary actor	N/A
Precondition	User logged in
Dependency	INCLUDE USE CASE Count Status Amount
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. User write a new status</li> <li>2. User request to post the status</li> <li>3. The C&amp;C VALIDATES THAT the status is in correct form</li> <li>4. The C&amp;C approve the request</li> <li>5. The C&amp;C performs Count Status Amount</li> </ol>
	<b>Post Condition:</b> The C&C post the status
Specific alternative flow1	The status is in correct form
	RFS Basic Flow 4-5
	<b>Step:</b> <ol style="list-style-type: none"> <li>4. The C&amp;C show incorrect details</li> <li>5. RESUME STEP 1</li> </ol>
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

## View Status Use Case Description

Use case name	View Status
Brief description	Show status of the user and his/her friends
Primary actor	User
Secondary actor	N/A
Precondition	User logged in
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"><li>1. User requests to view status</li><li>2. The C&amp;C system finds all friends of the user and collects all status of the friends and the user himself/herself.</li><li>3. The C&amp;C system arranges all status collected in STEP 2 in descending chronological order.</li><li>4. The C&amp;C system show the arranged status</li></ol>
	<b>Post Condition:</b> The C&C show status of the user and the user's friends in descending chronological order.
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A



## Comment Status Use Case Description

Use case name	Comment Status
Brief description	User comments a status
Primary actor	User
Secondary actor	N/A
Precondition	User logged in
Dependency	INCLUDE USE CASE Count Comment Amount
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. The user write a comment to a status</li> <li>2. The user request to publish the comment</li> <li>3. The C&amp;C VALIDATES THAT the comment is in correct form</li> <li>5. The C&amp;C approve the publish of the comment</li> <li>6. The C&amp;C performs the Count Comment Amount use case</li> </ol>
	<b>Post Condition:</b> The C&C publish the comment
Specific alternative flow1	The comment is in incorrect form
	RFS Basic Flow 4
	<b>Step:</b> <ol style="list-style-type: none"> <li>5. RESUME STEP 1</li> </ol>
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

## View Comments Use Case Description

Use case name	<b>View Comments</b>
Brief description	Show comments of the status
Primary actor	User
Secondary actor	N/A
Precondition	User logged in
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> 1. The user request to see the comments of a status 2. The C&C collect all comments and their writer of the status 3. The C&C arrange the comments in ascending chronological order. 4. The C&C show the comments and label their writer.
	<b>Post Condition:</b> The C&C show the comment
Specific alternative flow1	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### Count Status Amount Use Case Description

Use case name	Count Status Amount
Brief description	The C&C Database update the status amount
Primary actor	C&C Database
Secondary actor	N/A
Precondition	A Status is posted or deleted
Dependency	EXTENDED BY USE CASE View Data
Generalisation	N/A
Basic flow	<b>Steps:</b> 1. IF a status is posted THEN status amount add one ELSEIF a status is deleted THEN status amount is subtracted by one ENDIF
	<b>Post Condition:</b> The C&C update the status amount
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### Count Comments Amount Use Case Description

Use case name	Count Comments Amount
Brief description	The C&C Database update the comments amount
Primary actor	C&C Database
Secondary actor	N/A
Precondition	A comment is published or deleted
Dependency	EXTENDED BY USE CASE View Data
Generalisation	N/A
Basic flow	<b>Steps:</b> 1. IF a comment is published THEN comments amount add one ELSEIF a comment is deleted THEN comments amount is subtracted by one ENDIF
	<b>Post Condition:</b> The C&C update the comments amount
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

## Sign Out Use Case Description

Use case name	Sign out
Brief description	User / Administrator log out from the C&C
Primary actor	User or Administrator
Secondary actor	N/A
Precondition	User or the Administrator is logged in the C&C
Dependency	INCLUDE USE CASE Count Online User Amount
Generalisation	N/A
Basic flow	<b>Step:</b> <ol style="list-style-type: none"> <li>1. The C&amp;C VALIDATES THAT the user does want to logout</li> <li>2. The C&amp;C gets the user's identity</li> <li>3. The C&amp;C log the user out</li> <li>4. The C&amp;C performs Count Online User Amount use case</li> </ol>
	<b>Post condition:</b> User log out of C&C
Specific alternative flows	The user rejects to logout
	RFS Basic Flow 2-4
	<b>Step:</b> 3.ABORT
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

## Create Group Chat Use Case Description

Use case name	Create Group Chat
Brief description	User create a group chat in C&C
Primary actor	User
Secondary actor	N/A
Precondition	User is logged in the C&C
Dependency	INCLUDES USE CASE Invite Friends Joining Group
Generalisation	N/A
Basic flow	<b>Step:</b> <ol style="list-style-type: none"><li>1. The user requests to create a group</li><li>2. The C&amp;C system creates a group with the user as the only group member.</li><li>3. The C&amp;C performs Invite Friends Joining Group use case.</li></ol>
	<b>Post condition:</b> The user created a new group chat
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

## Join In Group Chat Use Case Description

Use case name	Join In Group Chat
Brief description	User join into a new group chat that is not in this user's group list
Primary actor	User
Secondary actor	N/A
Precondition	User is logged in the C&C
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Step:</b> <ol style="list-style-type: none"> <li>1. User request to join the group chat</li> <li>2. The C&amp;C VALIDATES THAT the user is legal to join the group chat</li> <li>3. The C&amp;C join the user to the group member list</li> <li>4. The C&amp;C join the group chat to the user's group list</li> </ol>
	<b>Post condition:</b> The user joins in a new group
Specific alternative flows	The user is illegal to join the group
	RFS Basic Flow 3-4
	<b>Step:</b> <ol style="list-style-type: none"> <li>4. ABORT</li> </ol>
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

## Leave & Delete Group Chat Use Case Description

Use case name	Leave & Delete Group Chat
Brief description	User leave a group chat and delete this group chat from his/her group chat list
Primary actor	User
Secondary actor	N/A
Precondition	User is in the group that he/she wants to leave
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Step:</b> <ol style="list-style-type: none"> <li>1. User request to leave the group chat</li> <li>2. The C&amp;C VALIDATES THAT the user does want to leave the group chat</li> <li>3. The C&amp;C remove the user from the group member list</li> <li>4. The C&amp;C delete the group chat from user's group chat list</li> </ol>
	<b>Post condition:</b> The user leave a group chat and delete this group chat from his/her group chat list
Specific alternative flows	The user reject to leave the group chat
	RFS Basic Flow 3-4
	<b>Step:</b> 3.ABORT
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A



## Invite Friends Joining Group Use Case Description

Use case name	Invite Friends Joining Group
Brief description	User invite one of his/her friend to a group chat
Primary actor	User
Secondary actor	N/A
Precondition	User is in the group chat and the invited friend is not in the group chat
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Step:</b> <ol style="list-style-type: none"> <li>1. The user invites another user to join the group</li> <li>2. The C&amp;C VALIDATES THAT the invitee is the inviter's friend.</li> <li>3. The C&amp;C add the invited user to invitee list of the group</li> <li>4. The C&amp;C add an invite message to invite message list of the invitee</li> </ol>
	<b>Post condition:</b> The invited user gets a legal invited message to join the group from the inviter
Specific alternative flows	The invitee is not one of the inviter's friends
	RFS Basic Flow 3-4
	<b>Step:</b> <ol style="list-style-type: none"> <li>3.C&amp;C shows an error</li> <li>4.ABORT ENDIF</li> </ol>
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### View Invite List Use Case Description

Use case name	View Invite List
Brief description	User view his/her invite list
Primary actor	User
Secondary actor	N/A
Precondition	User is logged in
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Step:</b> 1. The user requests to view his/her invite list 2. The C&C collect all invites and arrange them in ascending chronological order. 3. The C&C show the invite list.
	<b>Post condition:</b> The user view all of his/her invites
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### View Group List Use Case Description

Use case name	View Group List
Brief description	User views his/her group list
Primary actor	User
Secondary actor	N/A
Precondition	User is logged in
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Step:</b> <ol style="list-style-type: none"><li>1. User requests to view his/her group list</li><li>2. The C&amp;C collect all his/her groups and the latest message sent time from each group.</li><li>3. The C&amp;C provides the group list arranged in descending chronological order according to the latest message sent time of each group.</li></ol>
	<b>Post condition:</b> The C&C shows the group list
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

## Send Messages Use Case Description

Use case name	Send Messages
Brief description	Users send messages to each other
Primary actor	User
Secondary actor	N/A
Precondition	User is logged in the C&C
Dependency	INCLUDE USE CASE Count Message Sent Amount
Generalisation	N/A
Basic flow	<b>Step:</b> <ol style="list-style-type: none"> <li>1. User write a message</li> <li>2. The user requests to send the message to a friend/group.</li> <li>3. The C&amp;C VALIDATES THAT the message is in correct form.</li> <li>4. The message sent target is a friend.</li> <li>5. The C&amp;C send the message to the friend and add the message to the friend's chat history.</li> <li>6. The C&amp;C performs the Count Message Sent Amount use case</li> </ol>
	<b>Post condition:</b> User sent a message
Specific alternative flows 1	Message is not in correct form
	RFS Basic Flow 4-5
	<b>Step:</b> <ol style="list-style-type: none"> <li>4.show error message</li> <li>5.RESUME STEP 1</li> </ol>
Specific alternative flows 2	The message sent target is a group
	RFS Basic Flow 5
	<b>Step:</b> <ol style="list-style-type: none"> <li>5.The C&amp;C send the message to all group members in the group and add the message to the group's chat history.</li> </ol>
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

## Receive Messages Use Case Description

Use case name	Receive Messages
Brief description	Users receive messages from friends or groups
Primary actor	User
Secondary actor	N/A
Precondition	User logged into the C&C
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Step:</b> <ol style="list-style-type: none"><li>1. The C&amp;C sends a message tagged with its sender to the user.</li><li>2. The user receive the message and C&amp;C show the message in the sender's chat.</li></ol>
	<b>Post condition:</b> User receive a message
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### View History Messages Use Case Description

Use case name	View History Messages
Brief description	User view history messages
Primary actor	User
Secondary actor	N/A
Precondition	User logged into the C&C
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Step:</b> <ol style="list-style-type: none"><li>1. User request to view the history of a chat.</li><li>2. The C&amp;C collects from the chat with all history messages and the sender of each message.</li><li>3. The C&amp;C shows all history messages of the chat.</li></ol>
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### Count Message Sent Amount Use Case Description

Use case name	Count Message Sent Amount
Brief description	C&C database <b>update</b> the amount of messages that <b>all</b> users <b>sent</b>
Primary actor	C&C Database
Secondary actor	N/A
Precondition	User send / receive messages though C&C
Dependency	EXTENDED BY USE CASE View Data
Generalisation	N/A
Basic flow	<b>Step:</b> 1. IF a user send a new message, THEN C&C database add one to the amount of the messages ENDIF
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### Register Use Case Description

Use case name	register
Brief description	User who use the software for the first time get a unique account.
Primary actor	User
Secondary actor	C&C Database
Precondition	User does not have an account for the software
Dependency	INCLUDED USE CASE Count User Amount
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. The user provides his/her username, password and email.</li> <li>2. The user requests to submit and register.</li> <li>3. The C&amp;C VALIDATES THAT the inputs are all legal</li> <li>4. The C&amp;C VALIDATES THAT the email and username are unique.</li> <li>5. The C&amp;C approve the registration and store the user information to the database.</li> <li>6. The C&amp;C performs the Count User Amount use case</li> </ol>
	Post condition: The user is registered
Specific alternative flows 1	The inputs are Illegal
	RFS 4
	Step: <ol style="list-style-type: none"> <li>1. The C&amp;C show error message</li> <li>2. RESUME STEP 1</li> </ol>
Specific alternative flows 2	The email or username is already registered.
	RFS 5
	Step: <ol style="list-style-type: none"> <li>1. The C&amp;C show error message</li> <li>2. RESUME STEP 1</li> </ol>
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A



### Count online user amount Use Case Description

Use case name	Count online user amount
Brief description	Update the total online user amount
Primary actor	C&C Database
Secondary actor	N/A
Precondition	A user is logged in or logged out
Dependency	EXTENDED BY USE CASE View Data
Generalisation	N/A
Basic flow	IF a user is logged in THEN online user amount add one ELSEIF a user is logged out THEN online user amount is subtracted by one ENDIF
	Post condition: The C&C updates the online user amount
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### Count user amount Use Case Description

Use case name	Count user amount
Brief description	Update the total registered user amount
Primary actor	C&C Database
Secondary actor	N/A
Precondition	A user is registered
Dependency	EXTENDED BY USE CASE View Data
Generalisation	N/A
Basic flow	IF a user is registered THEN user amount add one ENDIF
	Post condition: The C&C updates the user amount
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### Search friend Use Case Description

Use case name	<b>Search friend</b>
Brief description	Search from friends
Primary actor	User
Secondary actor	N/A
Precondition	User is logged into the C&C
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"><li>1. The user provides the username or email of another user</li><li>2. The C&amp;C collects all users which have similar username or email from the searcher's friend list.</li><li>3. The C&amp;C shows the collected result</li></ol>
	Post condition: The C&C shows the search result
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements N/A	

### Approve/Reject friend request Use Case Description

Use case name	Approve/Reject friend request
Brief description	The user accepts or rejects the friend application sent by other users
Primary actor	User
Secondary actor	N/A
Precondition	User logged into the C&C
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. The user requests to approve a friend request.</li> <li>2. The C&amp;C system VALIDATES THAT the friend request is valid.</li> <li>3. The C&amp;C system VALIDATES THAT the user and the sender of the request are not friends.</li> <li>4. The C&amp;C system approve the request and set the user and the sender of the requests as friends.</li> </ol>
	<b>Post condition:</b> The user and the sender of the request become friends.
Specific alternative flows 1	The friend request is invalid
	RFS Step 3
	<b>Step:</b> <ol style="list-style-type: none"> <li>1. The C&amp;C shows an error message: the request is invalid!</li> <li>2. ABORT</li> </ol>
Specific alternative flows 2	The user and the sender of the request are already friends
	RFS Step 4
	<b>Step:</b> <ol style="list-style-type: none"> <li>1. The C&amp;C shows an error message: you are already friends!</li> <li>2. ABORT</li> </ol>
Global alternative flows	N/A
Bounded alternative flows	N/A

Special requirements	N/A
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### Remove Friend Use Case Description

Use case name	<b>Remove Friend</b>
Brief description	User remove a friend from his/her friend list
Primary actor	User
Secondary actor	N/A
Precondition	User is logged into the C&C
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. The user requests to remove a friend from his/her friend list.</li> <li>2. The C&amp;C remove the friend relationship between the user and the friend.</li> <li>3. The C&amp;C shows the success message.</li> </ol>
	Post condition: The friend is removed from the user's friend list
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### Search other user Use Case Description

Use case name	Search other user
Brief description	User find a new user
Primary actor	User
Secondary actor	N/A
Precondition	The user is logged into the C&C
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"><li>1. The user provides the username or email of the target user.</li><li>2. The C&amp;C collects all users which have similar username or email but not a friend of the searcher.</li><li>3. The C&amp;C shows the collected result</li></ol>
	Post condition: The C&C show search result
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### View Friend List Use Case Description

Use case name	View Friend List
Brief description	Show all friends of the user
Primary actor	User
Secondary actor	N/A
Precondition	User logged in
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> 1. User requests to view friend list 2. The C&C system finds all friends of the user and collects the latest history message and the message sent time. 3. The C&C system arranges friend list collected in STEP 2 by the latest message sent time in descending chronological order. 4. The C&C system show the arranged friend list
	<b>Post Condition:</b> The C&C shows the friend list and the latest message of each friend chat.
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

## Send Friend Request Use Case Description

Use case name	<b>Send Friend Request</b>
Brief description	The user sends a friend request to another user
Primary actor	User
Secondary actor	N/A
Precondition	User logged in
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. The user A requests to send a friend request to user B.</li> <li>2. The C&amp;C system VALIDATES THAT user B do exists.</li> <li>3. The C&amp;C system VALIDATES THAT user A and user B are not friends.</li> <li>4. The C&amp;C system approve the request and send a friend request to user B.</li> </ol>
	<b>Post Condition:</b> The C&C system sends a friend request from user A to user B.
Specific alternative flows 1	The user B does not exists
	RFS Step 3
	<b>Step:</b> <ol style="list-style-type: none"> <li>1. The C&amp;C system shows an error message</li> <li>2. ABORT</li> </ol>
Specific alternative flows 2	The user A and user B are already friends
	RFS Step 4
	<b>Step:</b> <ol style="list-style-type: none"> <li>1. The C&amp;C system shows that user A and user B are already friends.</li> <li>2. ABORT</li> </ol>
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A



### View Request List Use Case Description

Use case name	<b>View Request List</b>
Brief description	The user views all friend requests sent to him/her
Primary actor	User
Secondary actor	N/A
Precondition	User logged in
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> 1. The user request to view all friend requests sent to him/her 2. The C&C system collects all friend requests which the receiver is the user. 3. The C&C shows the collected requests arranged in descending chronological order.
	<b>Post Condition:</b> The C&C system shows all friend requests to the user.
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### Search User Use Case Description

Use case name	<b>Search User</b>
Brief description	Search a user from all
Primary actor	Administrator
Secondary actor	N/A
Precondition	Administrator is logged into the C&C
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> 1. The Administrator provides the username or email or user id of the user 2. The C&C collects all users which have the exact user id or similar username or email from all users. 3. The C&C shows the collected result
	Post condition: The C&C shows the search result
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements N/A	

### Block User Use Case Description

Use case name	<b>Block User</b>
Brief description	Administrator block a user and his/her related information from all user
Primary actor	Administrator
Secondary actor	N/A
Precondition	Administrator is logged into the C&C
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> 1. The administrator requests to block a user. 2. The C&C blocks the user's information, sign out the user immediately and stop the user from signing in. 3. The C&C shows the success message.
	Post condition: The user is blocked by the C&C system
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### View User List Use Case Description

Use case name	View User List
Brief description	Show all users
Primary actor	Administrator
Secondary actor	N/A
Precondition	Administrator logged in
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> 1. Administrator requests to view all users 2. The C&C system finds users 3. The C&C system show the user list
	<b>Post Condition:</b> The C&C shows the user list
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A