

## 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
Generalisation	N/A
Basic flow	<b>Steps:</b> 1. Administrator request to view the data 2. The C&C system collects the amount of users, online users, messages sent, status and comments. 3. The C&C system show the collected data in STEP 2
	<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 and Administrator
Secondary actor	N/A
Precondition	User or Administrator has an account
Dependency	INCLUDE USE CASE Count User Amount
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>The client provides their username and password</li> <li>The web-page VALIDATES THAT the inputs are legal</li> <li>The C&amp;C VALIDATES THAT the username and password are correct.</li> <li>The C&amp;C approves the client.</li> <li>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>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>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 2
	<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 3
	<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 2
	<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 3
	<b>Step:</b> <ol style="list-style-type: none"> <li>4. The web page 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
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### 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> 1. The user write a comment to a status 2. The user request to publish the comment 3. The C&C VALIDATES THAT the comment is in correct form 5. The C&C approve the publishment of the comment 6. The C&C performs the Count Comment Amount use case
	<b>Post Condition:</b> The C&C publish the comment
Specific alternative flow1	The comment is in incorrect form
	RFS Basic Flow 3
	<b>Step:</b> 4. RESUME STEP 1
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 subtract 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 subtract 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 and Administrator
Secondary actor	N/A
Precondition	User or the Administrator is logged in the C&C
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Step:</b> 1. The C&C VALIDATES THAT the client wants to logout 2. Client logout
	<b>Postcondition:</b> Client log out of C&C
Specific alternative flows	RFS Basic Flow 1
	IF the web-page VALIDATES THAT the client does not wants to logout, THEN ABORT ENDIF
	<b>Postcondition:</b> Client maintain login status
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	N/A
Generalisation	N/A
Basic flow	<b>Step:</b> <ol style="list-style-type: none"> <li>1. The C&amp;C VALIDATES THAT the user create a new group chat</li> <li>2. The user create a new group chat</li> </ol>
	<b>Postcondition:</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
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### 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, and user is been invited to a group chat by a friend
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Step:</b> <ol style="list-style-type: none"> <li>1. The user gets an invitation from a friend</li> <li>2. The user accept the invitation</li> <li>3. C&amp;C check if the user is legal to join the group chat</li> <li>4. The user gets in the group chat</li> </ol>
	<b>Postcondition:</b> The user joined in a new group

Specific alternative flows	RFS Basic Flow 2
	IF the user reject the invitation THEN ABORT ENDIF
	<b>Postcondition:</b> User does not join in a new group
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. The C&amp;C VALIDATES THAT the user wants to leave the group chat</li> <li>2. C&amp;C delete the group chat from user's group chat list</li> </ol>
	<b>Postcondition:</b> The user left and deleted the group

Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### Invite Friends In Group Chat Use Case Description

Use case name	Invite Friends In Group Chat
Brief description	User invite one of the friend to a group chat
Primary actor	User
Secondary actor	N/A
Precondition	User is in this 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 send a invitation to one of the friend</li> <li>2. The friend accept the invitation</li> <li>3. C&amp;C check if the friend is legal to join the group chat</li> <li>4. The friend gets into the group chat</li> </ol>



	<b>Postcondition:</b> The invited friend gets into the group chat
Specific alternative flows	RFS Basic Flow 2
	IF the friend reject the invitation THEN ABORT ENDIF
	<b>Postcondition:</b> Friend does not join in a new group
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 the 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 the group list</li> <li>2. C&amp;C provides the group list for this user</li> </ol>

	<b>Postcondition:</b> User views 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, and the receiver is user's friend
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 sent a message out</li> <li>2. C&amp;C recount user's "message sent"</li> <li>3. The C&amp;C performs the Count User Amount use case</li> </ol>
	<b>Postcondition:</b> User sent a message
Specific alternative flows	N/A
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 to each other
Primary actor	User
Secondary actor	N/A
Precondition	Sender is logged in the C&C, and the receiver is sender's friend
Dependency	INCLUDE USE CASE Count Message Sent Amount
Generalisation	N/A
Basic flow	<b>Step:</b> 1. User received a message 2. C&C recount user's "message received" 3. The C&C performs the Count User Amount use case
	<b>Postcondition:</b> User received a message
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### View History Use Case Description

Use case name	View History
Brief description	User view history messages
Primary actor	User
Secondary actor	N/A
Precondition	User has a history to view
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Step:</b> 1. User select friend's chatting page 2. C&C shows all the history chatting above
Specific alternative flows	N/A
Global alternative flows	N/A
Bounded alternative flows	N/A
Special requirements	N/A

### Count Message Send Amount Use Case Description

Use case name	Count Message Send Amount
Brief description	C&C database count the amount of message that user received
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 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 and Administrator
Secondary actor	N/A
Precondition	User does not have an account for the softwave
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> 1. Customer clicks the register button 2. Customer submits personal information 3. Customer clicks the finish button
	Postcondition: Database accepts new customer data
Specific alternative flows	RFS Basic Flow 2
	<b>Steps:</b> 2. The data sent by the client does not meet the specification. 3. The software refreshes the page and the customer resends the message

	Postcondition: Database accepts new customer data
Global alternative flows N/A	Steps:
	Postcondition:
Bounded alternative flows N/A	RFS
	Steps:
	Postcondition:
Special requirements N/A	

### Count online user amount Use Case Description

Use case name	<b>Count online user amount</b>
Brief description	Calculate the number of logins of customers per unit time
Primary actor	User and Administrator
Secondary actor	N/A
Precondition	The software and database are running normally.
Dependency	N/A
Generalisation	Sign in , Sign out
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. Customer registered account</li> <li>2. Increase the total number of customers in the database</li> </ol>
	Postcondition: Database accepts new data
	RFS Basic Flow 1

Specific alternative flows	
	Steps: 1. customer logout. 2. Reduce the number of online users
	Postcondition: Database accepts data
Global alternative flows N/A	Steps:
	Postcondition:
Bounded alternative flows N/A	RFS
	Steps:
	Postcondition:
Special requirements N/A	

### Count user amount Use Case Description

Use case name	<b>Count user amount</b>
Brief description	Calculate the total number of customers in the database
Primary actor	User and Administrator
Secondary actor	N/A
Precondition	The software and database are running normally.
Dependency	N/A
Generalisation	Register
	<b>Steps:</b>



Basic flow	customer login Increase the number of online users
	Postcondition: Database accepts new data
Specific alternative flows N/A	RFS
	Steps:
	Postcondition:
Global alternative flows N/A	Steps:
	Postcondition:
Bounded alternative flows N/A	RFS
	Steps:
	Postcondition:
Special requirements N/A	

### Search friend Use Case Description

Use case name	<b>Search friend</b>
Brief description	Find other users and make friends
Primary actor	User and Administrator

Secondary actor	N/A
Precondition	The software and database are running normally. Customer access software
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. The customer enters the ID of another user</li> <li>2. Customer sends request for friend application</li> <li>3. Application accepted</li> </ol>
	Postcondition: Database update data
Specific alternative flows N/A	RFS Basic flow 1
	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. The user ID entered by the customer does not exist.</li> <li>2. The page is updated and the customer is required to re-enter</li> </ol>
	Postcondition: Database update data
Global alternative flows N/A	<b>Steps:</b>
	Postcondition:
Bounded alternative flows N/A	RFS
	<b>Steps:</b>
	Postcondition:
Special requirements N/A	

## Approve/Reject friend request Use Case Description

Use case name	<b>Approve/Reject friend request</b>
Brief description	The customer accepts or rejects the friend application sent by other customers
Primary actor	User and Administrator
Secondary actor	N/A
Precondition	The software and database are running normally.
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. Customer opens friend application list</li> <li>2. Customer agrees or rejects the application</li> </ol>
	Postcondition: Database update data
Specific alternative flows N/A	RFS
	Steps:
	Postcondition:
Global alternative flows N/A	Steps:
	Postcondition:
Bounded alternative flows N/A	RFS
	Steps:
	Postcondition:
Special requirements N/A	

## Remove Use Case Description

Use case name	Remove
Brief description	Customers delete friends
Primary actor	User and Administrator
Secondary actor	N/A
Precondition	The software and database are running normally.
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>Customer enters friend list</li> <li>Customers delete friends</li> </ol>
	Postcondition: Database update data
Specific alternative flows N/A	RFS
	Steps:
	Postcondition:
Global alternative flows N/A	Steps:
	Postcondition:
Bounded alternative flows N/A	RFS
	Steps:

	Postcondition:
Special requirements N/A	

### Search & add other user Use Case Description

Use case name	<b>Search &amp; add other user</b>
Brief description	Customers find and add new users
Primary actor	User and Administrator
Secondary actor	N/A
Precondition	The software and database are running normally.
Dependency	N/A
Generalisation	N/A
Basic flow	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. The customer enters the user ID and searches for a new user</li> <li>2. Customer add new user</li> </ol>
	Postcondition: Database update data
Specific alternative flows	RFS Basic flow 1
	<b>Steps:</b> <ol style="list-style-type: none"> <li>1. The ID entered by the customer is invalid.</li> <li>2. The software refreshes the page and the customer re enters the user ID.</li> </ol>

	Postcondition: Database update data
Global alternative flows N/A	Steps:
	Postcondition:
Bounded alternative flows N/A	RFS
	Steps:
	Postcondition:
Special requirements N/A	