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 | **Steps:**   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 |
| **Post Condition**: 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 | **Steps:**   1. The client provides their username and password 2. The web-page VALIDATES THAT the inputs are legal 3. The C&C VALIDATES THAT the username and password are correct. 4. The C&C approves the client. 5. The C&C performs the Count User Amount use case |
| **Post Condition**: The C&C signs the client in |
| Specific alternative flow1 | Inputs are illegal |
| RFS Basic Flow 3 |
| **Step:**  3. RESUME STEP 1 |
| Specific alternative flow2 | Username or password incorrect |
| RFS Basic Flow 4 |
| **Step:**  4. RESUME STEP 1 |
| 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 | **Steps:**   1. User request to view his/her personal information 2. The C&C show the personal information |
| **Post Condition**: 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 | **Steps:**   1. User edit his/her information 2. The C&C VALIDATES THAT the inputs are legal 3. The C&C VALIDATES THAT the inputs are unique 4. The C&C approves the change |
| **Post Condition**: The C&C change the user information |
| Specific alternative flow1 | Inputs are illegal |
| RFS Basic Flow 2 |
| **Step:**  3. RESUME STEP 1 |
| Specific alternative flow2 | Inputs are not unique |
| RFS Basic Flow 3 |
| **Step:**  4. RESUME STEP 1 |
| 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 | **Steps:**   1. User delete a status 2. The C&C VALIDATES THAT the status exists 3. The C&C approves the request 4. The C&C performs Count Status Amount use case |
| **Post Condition**: The C&C delete the status |
| Specific alternative flow1 | The status does not exists |
| RFS Basic Flow 2 |
| **Step:**  3. ABORT |
| 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 | **Steps:**   1. User write a new status 2. User request to post the status 3. The C&C VALIDATES THAT the status is in correct form 4. The C&C approve the request 5. The C&C performs Count Status Amount |
| **Post Condition**: The C&C post the status |
| Specific alternative flow1 | The status is in correct form |
| RFS Basic Flow 3 |
| **Step:**  4. The web page show incorrect details  5. RESUME STEP 1 |
| 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 | **Steps:**   1. User requests to view status 2. The C&C system finds all friends of the user and collects all status of the friends and the user himself/herself. 3. The C&C system arranges all status collected in STEP 2 in descending chronological order. 4. The C&C system show the arranged status |
| **Post Condition**: 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 | **Steps:**   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 4. The C&C approve the publishment of the comment 5. The C&C performs the Count Comment Amount use case |
| **Post Condition**: The C&C publish the comment |
| Specific alternative flow1 | The comment is in incorrect form |
| RFS Basic Flow 3 |
| **Step:**  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 | **Steps:**   1. IF a status is posted THEN status amount add one ELSEIF a status is deleted THEN status amount subtract one ENDIF |
| **Post Condition**: 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 | **Steps:**   1. IF a comment is published THEN comments amount add one ELSEIF a comment is deleted THEN comments amount subtract one ENDIF |
| **Post Condition**: 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 | **Step:**   1. The C&C VALIDATES THAT the client wants to logout 2. Client logout |
| **Postcondition:** 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 |
| **Postcondition:** 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 | **Step:**   1. The C&C VALIDATES THAT the user create a new group chat 2. The user create a new group chat |
| **Postcondition:** 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, and user is been invited to a group chat by a friend |
| Dependency | N/A |
| Generalisation | N/A |
| Basic flow | **Step:**   1. The user gets an invitation from a friend 2. The user accept the invitation 3. C&C check if the user is legal to join the group chat 4. The user gets in the group chat |
| **Postcondition:** The user joined in a new group |
| Specific alternative flows | RFS Basic Flow 2 |
| IF the user reject the invitation THEN ABORT ENDIF |
| **Postcondition:** 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 | **Step:**   1. The C&C VALIDATES THAT the user wants to leave the group chat 2. C&C delete the group chat from user’s group chat list |
| **Postcondition:** 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 | **Step:**   1. The user send a invitation to one of the friend 2. The friend accept the invitation 3. C&C check if the friend is legal to join the group chat 4. The friend gets into the group chat |
| **Postcondition:** The invited friend gets into the group chat |
| Specific alternative flows | RFS Basic Flow 2 |
| IF the friend reject the invitation THEN ABORT ENDIF |
| **Postcondition:** 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 | **Step:**   1. User requests to view the group list 2. C&C provides the group list for this user |
| **Postcondition:** 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 | **Step:**   1. User sent a message out 2. C&C recount user’s “message sent” 3. The C&C performs the Count User Amount use case |
| **Postcondition:** 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 | **Step:**   1. User received a message 2. C&C recount user’s “message received” 3. The C&C performs the Count User Amount use case |
| **Postcondition:** 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 | **Step:**   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 | **Step:**   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 | **Steps**:   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 |
|
| Steps:  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 | **Count online user amount** |
| --- | --- |
| 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 | **Steps**:   1. Customer registered account 2. Increase the total number of customers in the database |
|
| Postcondition: Database accepts new data |
| Specific alternative flows | RFS Basic Flow 1 |
|
| 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 | **Count user amount** |
| --- | --- |
| 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 |
| Basic flow | **Steps**:  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 | **Search friend** |
| --- | --- |
| 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 | **Steps**:   1. The customer enters the ID of another user 2. Customer sends request for friend application 3. Application accepted |
|
| Postcondition: Database update data |
| Specific alternative flows  N/A | RFS  Basic flow 1 |
|
| Steps:   1. The user ID entered by the customer does not exist. 2. The page is updated and the customer is required to re-enter |
| Postcondition: Database update data |
| Global alternative flows  N/A | Steps: |
| Postcondition: |
| Bounded alternative flows  N/A | RFS |
|
| Steps: |
| Postcondition: |
| Special requirements N/A |  |

**Approve/Reject friend request Use Case Description**

| Use case name | **Approve/Reject friend request** |
| --- | --- |
| 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 | **Steps**:   1. Customer opens friend application list 2. Customer agrees or rejects the application |
|
| 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 | **Steps**:   1. Customer enters friend list 2. Customers delete friends |
|
| 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 | **Search & add other user** |
| --- | --- |
| 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 | **Steps**:   1. The customer enters the user ID and searches for a new user 2. Customer add new user |
|
| Postcondition: Database update data |
| Specific alternative flows | RFS  Basic flow 1 |
|
| Steps:   1. The ID entered by the customer is invalid. 2. The software refreshes the page and the customer re enters the user ID. |
| Postcondition: Database update data |
| Global alternative flows  N/A | Steps: |
| Postcondition: |
| Bounded alternative flows  N/A | RFS |
|
| Steps: |
| Postcondition: |
| Special requirements N/A |  |