**Full Use Case Description**

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| **Use case name:** | Invite Member Board | |
| **Scenario:** | Admin invite new member to the board | |
| **Triggering event:** | Admin want to add new member in the board | |
| **Brief description:** | Admin select invitation method, invite member in accordance to the selected method, and confirm invitation. | |
| **Actors:** | Board Admin | |
| **Related use cases:** | Might be affected by the board visibility from *set member visibility* use case. Continue to *Accept or Reject Board Invitation* use case. | |
| **Stakeholders:** | CHello User | |
| **Preconditions:** | Board must be created Board already in a workspace | |
| **Postconditions:** | Successfully sent Notification to user that invited | |
| **Flow of activities:** | Actor | System |
| 1. Admin Select invitation method (link or email) 2. For method link, Admin copy the generated link and send it to the member he/she wants to invite. 3. For method email, Admin input email of the member he/she wants to invite. 4. Admin Confirm Invitation | * 1. if admin choose link, System generate link for invitation   2. Else System show user to input Email   3.1 System look out for registered email database.  3.2 if the board visibility not public, System validate input email is workspace member.  3.3 System show pop up confirmation.  4.1 System sent notification to invited member by email |
| **Exception conditions:** | 3.1 Inputted email not found, stop the invitation process then .  3.2 Inputted email invalid, tell user to input other email  4.1 User cancel Invitation confirmation, the invitation progress stop. | |

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| **Use case name:** | Leave Board | |
| **Scenario:** | User leave board | |
| **Triggering event:** | User want to leave board | |
| **Brief description:** | Leave board, for the only member it needs to either *delete* or *close* board. If not the only member and the role admin, it need to *grant* another member *admin role*. | |
| **Actors:** | Board Member | |
| **Related use cases:** | Might need to do *delete board, close board,* or *grant board admin role* use case. | |
| **Stakeholders:** | Board Members | |
| **Preconditions:** | User Joined Board | |
| **Postconditions:** | Update User data of joined Boards  Update Board data | |
| **Flow of activities:** | Actor | System |
| 1. User initiate to leave by clicking the button 2. For user is the only member left, choose *delete board* or *close board.* 3. For user that is the only admin, *grant board admin role*. 4. Confirm leave Board. | 1.1 System checks the number of members in board  1.2 if user is the only member, System show user to choose *delete board* or *close board.*  1.3 Else System checks the user’s role.   * 1. 1.4 If User’s role is admin, System checks number of admin in board.   2. 1.5 If User is the only admin, show user to *grant board admin role* to one of the members.   2.1 If user choose *delete board*, System delete board permanently.  2.2 Else if user choose *close board,* System closes the board.  3.1 System grant admin role to selected user.  4.1 System update user and board data |
| **Exception conditions:** | 3.1 User not choose any admin to grant, the leave board process will be stop.  4.1 User cancel leave board confirmation, the leave board process will be stop. | |

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| **Use case name:** | View Workspace Detail | |
| **Scenario:** | View workspace detail to see the information. | |
| **Triggering event:** | User want to see the information of a workspace | |
| **Brief description:** | User open a workspace detail. System checks the workspace visibility. System check if user is workspace member or not. Update workspace real-time workspace data. Show workspace detail. | |
| **Actors:** | CHello User | |
| **Related use cases:** | Might be affected by workspace visibility from *set workspace visibility* use case. | |
| **Stakeholders:** | None | |
| **Preconditions:** | None | |
| **Postconditions:** | Successfully show workspace Information | |
| **Flow of activities:** | Actor | System |
| 1. User open one of the workspace users want to view the detail.   \   1. If workspace visibility private and user is workspace member, or if workspace visibility is public, view workspace detail. | * 1. System Check user logged in.   2. If user logged in, System Check workspace visibility.   3. If workspace visibility is private, System validate user is workspace member.   4. System gets workspace data.   5. System shows the workspace detail   3.1 Every time workspace data changed, System update workspace data.  3.2 System show updated data. |
| **Exception conditions:** | * 1. User is not logged in, redirect user to login or register.   2. User is not workspace member and visibility are private, System show user can not view workspace detail. | |

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| **Use case name:** | Delete Workspace | |
| **Scenario:** | Admin Delete a workspace | |
| **Triggering event:** | Admin want to delete a workspace. | |
| **Brief description:** | The admin delete workspace, then ask other admin permission if there is other admin. The board in workspace automatically closed, delete workspace. | |
| **Actors:** | Workspace Admin | |
| **Related use cases:** | Might need to *close board* in workspace. | |
| **Stakeholders:** | Workspace Members, Board Members. | |
| **Preconditions:** | Workspace is created | |
| **Postconditions:** | Workspace data updated.  Close Board in workspace.  Workspace members data about the workspace updated.  Board members data about the closed board updated. | |
| **Flow of activities:** | Actor | System |
| 1. Admin initiate delete workspace by clicking the delete button. 2. Admin ask other admin permission. 3. Admin confirm workspace deletion. | * 1. System check is there any other admin   2. If there is other admin, System shows the user to ask permission to another admin.   2.1 System send permission notification to other admin.  2.2 System check other’s admin acceptance after all admin responses.  2.3 if all admin accepts, System show confirmation pop up.  3.1 System close all board in the workspace.  3.2 System Delete workspace. |
| **Exception conditions:** | 2.1 One of the admins not give the permission, stop the deletion process.  3.1 Admin cancel confirmation, stop the deletion process. | |

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| **Use case name:** | Add Comment. | |
| **Scenario:** | User Give a comment in a card. | |
| **Triggering event:** | User want to comment a card. | |
| **Brief description:** | User add comment, mention another user, send notification about the comment to card’s watcher, send notification to mentioned user. | |
| **Actors:** | Board Members | |
| **Related use cases:** | Might be affected by visibility from *set board visibility* use case. Might need to notify card watcher after created from *add card’s watcher* use case. | |
| **Stakeholders:** | CHello Users | |
| **Preconditions:** | Card Created.  Joined Board that has the card. | |
| **Postconditions:** | Update Card Data.  Notified Mentioned User or Card’s Watcher. | |
| **Flow of activities:** | Actor | System |
| 1. User input a comment in the card. 2. Press the button add comment. | * 1. For each time user inputted “@” in the comment, System checks the board visibility.      1. if visibility is *workspace-visible,* System shows workspace member username to be mentioned.      2. if visibility is *board-visible,* System shows board member username to be mentioned.      3. if visibility is public, System shows every user username to be mentioned.   2. If there is any mentioned user, System send notification to user that mentioned.   3. System check is there any card’s watcher in the card.   4. If there is a card’s watcher, System send notification to the card’s watcher. |
| **Exception conditions:** | * 1. User input “@” with nonvalid username, system not consider it as mention username.   2. User input “@” and then press “space”, System considers it as a normal comment.   2.1 User not add comment after inputting the comment then user go to other page, the comment will be deleted. | |