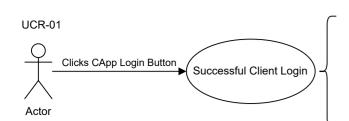
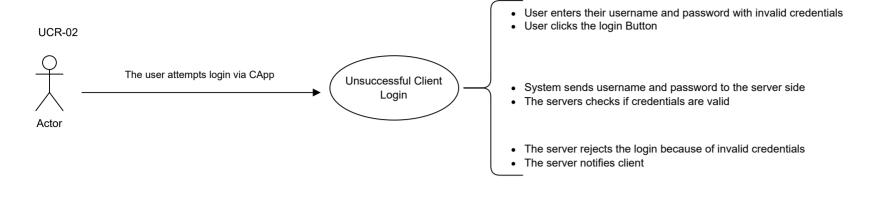
User Authentication - Client

Authors: Christian Bartel Christian Ramirez-Chavez Vania Santillana Padilla Zach Haake-Lopez

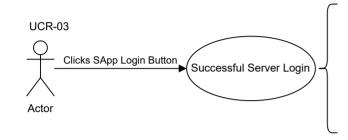
> Date: 9/25/2025



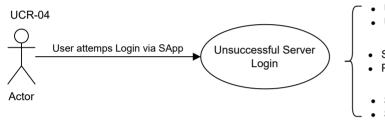
- Client enters their username and password correctly then clicks the Login Button
- System sends username and password to the server side (which may create a new account for the user) which responds with a validating signaling, which then grants the user access
- Client sees the ChatApp grant access to chat rooms, chats, etc...



User Authentication - Server

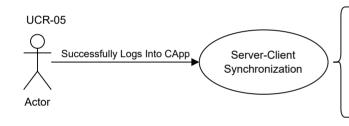


- Admin enters their username and password correctly then clicks the Login Button
- System verifies username and password (which may create a new account for the user) resulting in a match, which then grants the admin access
- Admin sees the system grants access to view the clients in their chats/chat rooms



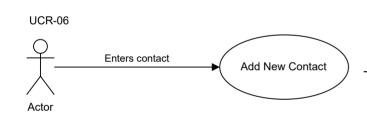
- User enters their username and password incorrectly
- User Clicks the Login Button
- · System sees if it can verify username and password Password pwA does not match stored account for unA.
- Server rejects login
- Server notigies Client

Server-Client Synchronization

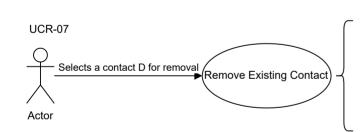


- Client enters their username and password correctly then clicks the Login Button, successfully logging in
- The client side sends the user's contact list to the server, which updates the online status of the client and his contact list
- · All other online clients with the client in their contact list are notified of their online status and the client's contact list is updated as well

Contact Management

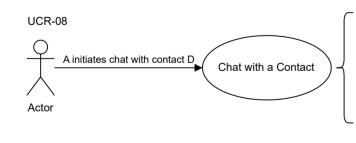


- Client(A) enters a contact name(B)\ Client(A) requests addition to A's contact list
- Server checks if the contact(B) being added exists
- If contact(B) exists, the contact(B) is added to A's contact list Server notifies client(for both the contact existing and not existing)

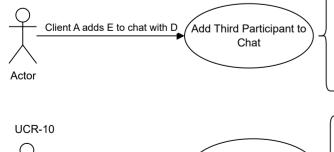


- The client A selects a contact D and presses the remove button next to their contact
- · Client side sends the event to the server side which removes D from A's contact list, and notifies the client
- The client A no longer sees the contact D in their contact list

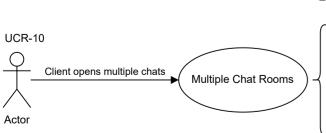
Chat Functionality



- A starts a new chat and selects D as the contact to chat with
- The client side notifies the server side of the request, which initiates a chat between the user pair A and D
- Client A receives a pop-up window of messages exchanged



- A adds E to the current chat with D
- The client side notifies the server of the request which verifies E's status and contacts, which results in E receiving the chat history and being added to the session
- . E is sent the chat history and has access to the chat room



- Client clicks on multiple chat rooms at the same time
- For each chat room opened, the server is notified and verifies the user, finally sending the chat history back to the client side which will open the chat room
- Client receives a pop-up window of messages exchanged for all chat rooms opened

Logout

UCR-09

