

CHAT XMPP

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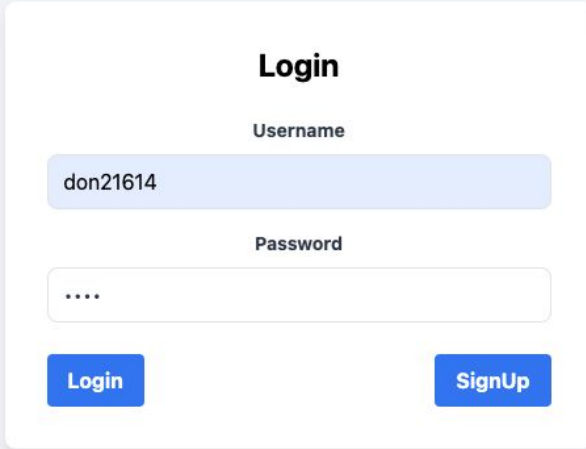
Lessons Learned

01

Features



Log In



Login

Username

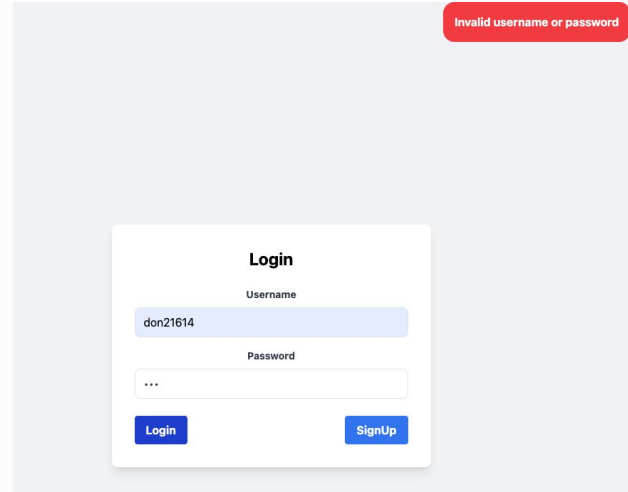
don21614

Password

....

Login

SignUp



Invalid username or password

Login

Username

don21614

Password

...

Login

SignUp

Notifications to alert if there is an error.

Sign Up

Sign up form to include the wished username, password and email address.

Sign Up

Username

Password

email

[Sign Up](#)[Login](#)

Main

App

Contact section: Displays the information contact of the selected friend

Status selector: Displays and allows us to change our current status.

Presence section: Displays and allows us to change our presence message.

Logout button: Allows us to logout of our account and log in with a different one.

Chats section: Stores all chats with contacts and group chats.

Unregister button: Allows us to delete our account from the server.

Message area: Displays all the messages shared in a specific chat.

Add Section: Allows us to add a user as friend, join a group chat and create a group.

Input area: Allows us to write or upload a file to send in a chat.

The screenshot shows a web application interface for a chat system. At the top, a dark header bar contains the user's contact information (Email: osc21611@alumchat.lol, Username: osc21611@alumchat.lol, Status: Offline, Presence:) and a status selector dropdown menu (Online, Away, Do Not Disturb, Extended Away, Offline). To the right of the header are buttons for 'Logout' and 'Unregister'. Below the header, the main content area is divided into two sections. The left section, titled 'Chats', lists a chat with 'osc21611@alumchat.lol' (Status: Offline) and an 'Add Contact' button. The right section, titled 'Chat with', shows a chat window with a 'Presence Message' input field and a 'Send' button. Below the chat window, there is a 'Message area' displaying a list of messages: 'You: Hi!', 'You: How are you!', 'You: Nice meeting you!', and 'You: Hope to see you too'. At the bottom of the interface, there is an 'Input area' with a 'Choose File' button, a text input field, and a 'Send' button. Red arrows point from the text labels to the corresponding UI elements in the screenshot.

Contact Information

Contact Info:

Email: osc21611@alumchat.lol

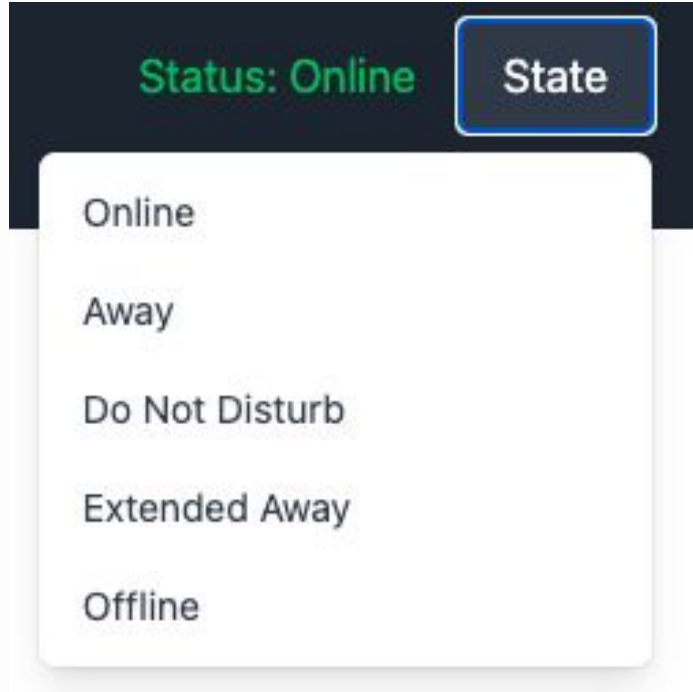
Username: osc21611@alumchat.lol

Status: Offline

Presence:

Allow us to see all the contact information of a friend.

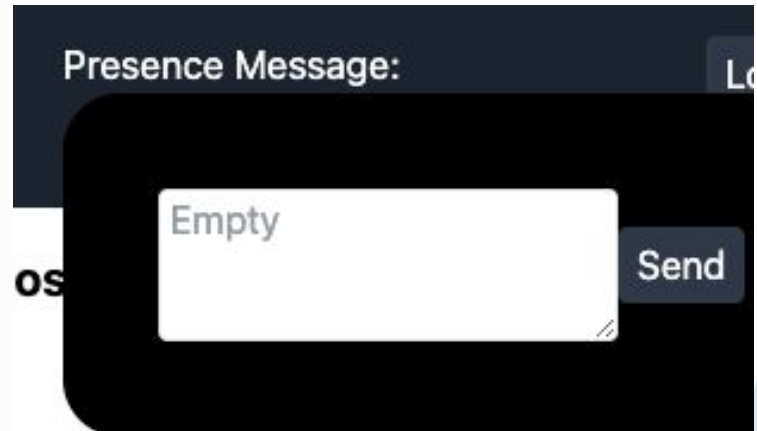
Status



Allows us to change our current status to the 5 available options. It also displays our current state at the moment.

Presence Message

Allows us to change our current status to the 5 available options. It also displays our current state at the moment.

A screenshot of a dark-themed user interface for sending a presence message. At the top, the text "Presence Message:" is displayed in a light gray font. Below this, there is a large, rounded rectangular text input field with a white background and a thin gray border. The word "Empty" is written in a light gray font inside this field. To the right of the input field is a dark gray button with the word "Send" in white. The overall design is clean and modern, with a focus on the input field and the send button.

Logout Unregister

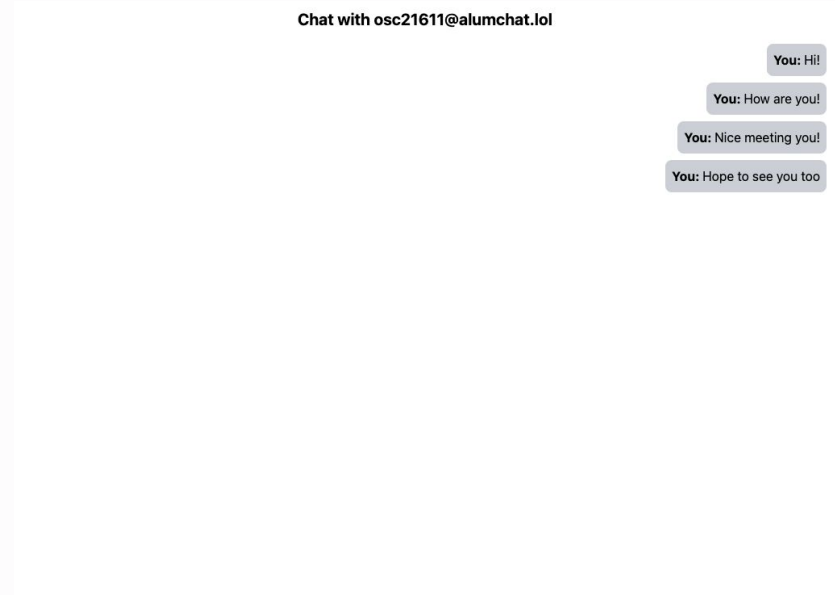


Logout Unregister

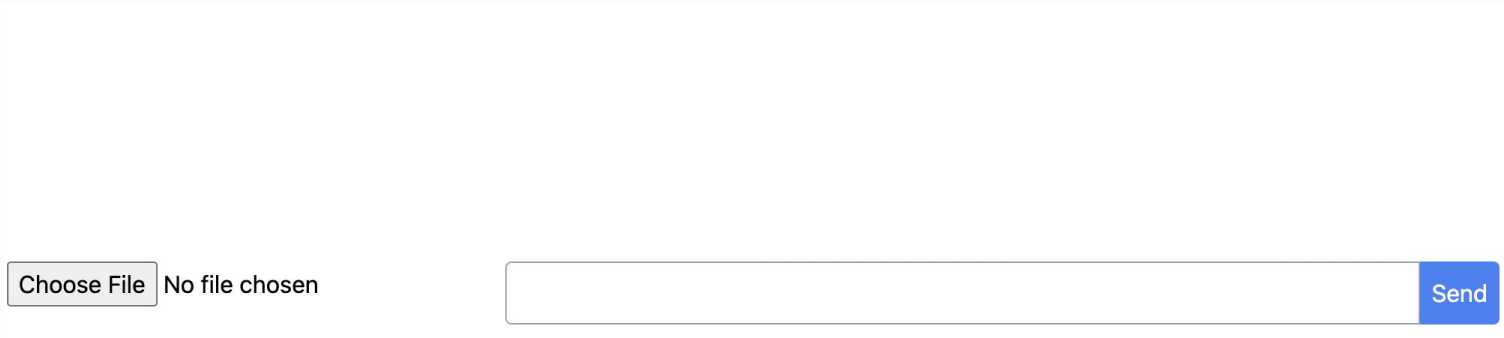
Buttons that allows us to just log out of our account or simply delete it from the server. *This will delete you from your friends' friend list.

Message Area

Area where all messages exchanged are displayed, including files.



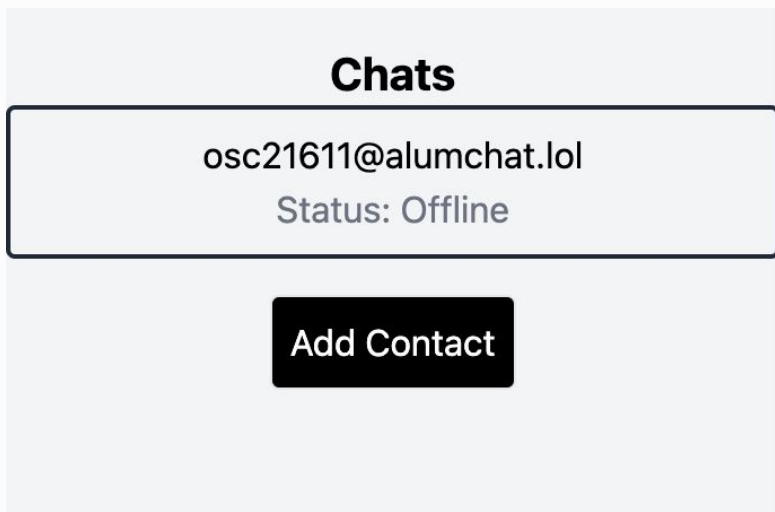
Input Area



A mockup of a chat input area. It features a large, empty rectangular text input field with a light gray border. Below the input field, on the left, is a file selection interface consisting of a button labeled 'Choose File' and the text 'No file chosen'. To the right of the file selection is a long, empty rectangular text input field. On the far right of this row is a blue button with the word 'Send' in white text.

Allows us to send messages and files to chats with people and group chats.

Chats Section



Chat section that displays all the chats available and group chats.

Message Area

Area where you can add a contact, create a group and join a group.

Add Contact

osc21611@alumchat.lol

Send to Contact Send to Group

Create group



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Challenges Faced

Challenges while making the chat

Easy challenges:

- Define the layout for my chat.
- Check how to use xmpp library, it had a few good examples of use that help me set up fairly easy my client.
- To create the login and signup flow in my chat.
- Creating a way to store the data within the page.

Hard challenges:

- Understanding how the XMPP protocol works.
- Choosing which library and what tools to utilize when building the chat.
- Figuring out the specific stanzas that had to be sent, specially in cases like creating a group that had a lot of things to consider.
- How to send the inputs and receive the data from the server and being able to display it in my webpage.

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Lessons

Learned



What did I learn?

I learned to research and read the official documentation, I used to look up for practical examples when it came to learning a new tool, however, this project lead me into starting to read more the official documentation of xmpp protocol and xmpp.js library. This help me better understand the basics of these new tools and made it x10 easier to implement features latter on in development. It also pushed me into starting the project early and work little by little, consistently, into adding more, though I feel like I could have work a little better to avoid rushing to deliver the last features of the project. This project gave me a better understanding on how chat apps work, and how protocols help to keep this standard that make communication between apps and services more easier and less troublesome.

The background features abstract, light blue organic shapes in the top-left, bottom-left, and bottom-right corners, framing the central text.

**Thank you for
your
attention!**