
Cliente XMPP

— Marco jurado 20308 —

Funcionalidades
implementadas

Login, Sign up, Log out

```
> xmpp_redes@1.0.0 nice
> node --no-warnings index.js
```

```
--- Main Menu ---
```

1. Messaging
2. Manage Accounts
3. Exit

```
>> Select an option: 2
```

```
--- Manage Accounts Menu ---
```

1. Register
2. Log in
3. Log out
4. Delete account
5. Back to Main Menu

```
>> Select an option: 1
Enter the username: finaljur
Enter the password: 123
Registering user: finaljur
Password: 123
```

```
--- Manage Accounts Menu ---
```

1. Register
2. Log in
3. Log out
4. Delete account
5. Back to Main Menu

```
>> Select an option: XMPP connection online
Registration IQ sent successfully
Disconnected
```

```
--- Manage Accounts Menu ---
```

1. Register
2. Log in
3. Log out
4. Delete account
5. Back to Main Menu

```
>> Select an option: 2
Enter the username: finaljur
Enter the password: 123
Logging in user: finaljur
Password: 123
```

```
--- Manage Accounts Menu ---
```

1. Register
2. Log in
3. Log out
4. Delete account
5. Back to Main Menu

```
>> Select an option:
>> Login successful! JID:
finaljur@alumchat.xyz/844bi3856
```

```
--- Manage Accounts Menu ---
```

1. Register
2. Log in
3. Log out
4. Delete account
5. Back to Main Menu

```
>> Select an option:
>> Login successful! JID:
finaljur@alumchat.xyz/844bi3856
3
Logging out
>> Logout successful!
```

Agregar Contactos

```
--- Main Menu ---
1. Messaging
2. Manage Accounts
3. Exit

>> Select an option: 1

--- Messaging Menu ---
1. Private Message
2. Broadcast Chat
3. Show Contacts
4. Add Contact
5. Contact Info
6. Change Status
7. Notifications
8. Files
9. Back to Main Menu

>> Select an option: 4
Adding contact to contactlist
Enter the JID of the user you want to add: jur1@alumchat.xyz
>> Sent contact subscription request to jur1@alumchat.xyz
```

--- Messaging Menu ---

1. Private Message
2. Broadcast Chat
3. Show Contacts
4. Add Contact
5. Contact Info
6. Change Status
7. Notifications
8. Files
9. Back to Main Menu

>> Select an option:

>> The user jur1@alumchat.xyz is now online.

>> The user jur1@alumchat.xyz/4l390e68qg is now Active.

Enter the password: 123

Logging in user: jur1

Password: 123

--- Manage Accounts Menu ---

1. Register
2. Log in
3. Log out
4. Delete account
5. Back to Main Menu

>> Select an option:

>> Login successful! JID:

jur1@alumchat.xyz/4l390e68qg

>> Incoming contact request, approved!

>> The user finaljur@alumchat.xyz is now online.

Mostrar contactos y su estado

```
--- Messaging Menu ---
1. Private Message
2. Broadcast Chat
3. Show Contacts
4. Add Contact
5. Contact Info
6. Change Status
7. Notifications
8. Files
9. Back to Main Menu

>> Select an option: 3
Showing contacts:
-> jur1@alumchat.xyz (Active)
    message: Active
-> finaljur@alumchat.xyz (Active)
    message: undefined
```

Cambiar estado

```
--- Messaging Menu ---
```

1. Private Message
2. Broadcast Chat
3. Show Contacts
4. Add Contact
5. Contact Info
6. Change Status
7. Notifications
8. Files
9. Back to Main Menu

```
>> Select an option: 6
```

```
Changing status...
```

```
Select presence status (available/away): Available
```

```
Enter a status message to display to other users: recieving notifications
```

```
>> You have changed your user's status to: Available
```

Mostrar la información de un contacto

```
--- Messaging Menu ---
```

1. Private Message
2. Broadcast Chat
3. Show Contacts
4. Add Contact
5. Contact Info
6. Change Status
7. Notifications
8. Files
9. Back to Main Menu

```
>> Select an option: 5
```

```
Showing info from contact...
```

```
Enter the JID of the user you want to get information for: jur1@alumchat.xy
```

```
Z
```

```
>> Contact jur1@alumchat.xyz is currently Active
```


Enviar mensajes

```
--- Private Messages Menu ---
```

1. Send message
2. View messages
3. Back to Messaging Menu

```
>> Select an option: 1  
Sending message...
```

```
>> Who would you like to send the message to: jur1@alumchat.xyz  
>> Your message:  
hola
```

```
--- Private Messages Menu ---
```

1. Send message
2. View messages
3. Back to Messaging Menu

```
>> Select an option: █
```

1. Send message
2. View messages
3. Back to Messaging Menu

```
>> Select an option:  
Invalid option. Please try again.
```

```
--- Private Messages Menu ---
```

1. Send message
2. View messages
3. Back to Messaging Menu

```
>> Select an option: >> New messages from jur20308test@alumchat.xyz/2uby  
t6yn1d
```

```
>> You have new notifications!
```

```
█
```

Ver mensajes

```
2
Searching for messages...
>> You have messages from:
jur20308test@alumchat.xyz

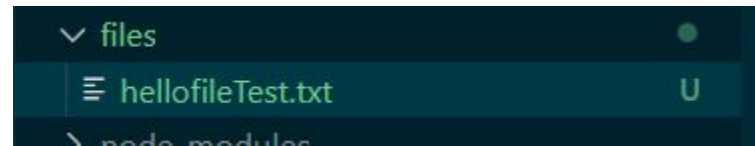
>> Enter the username of the person whose messages you want to view: jur2
0308test@alumchat.xyz
Messages sent from: jur20308test@alumchat.xyz
-> hola
    (Tue Aug 22 2023 12:54:24 GMT-0600 (hora estándar central))

--- Private Messages Menu ---
```

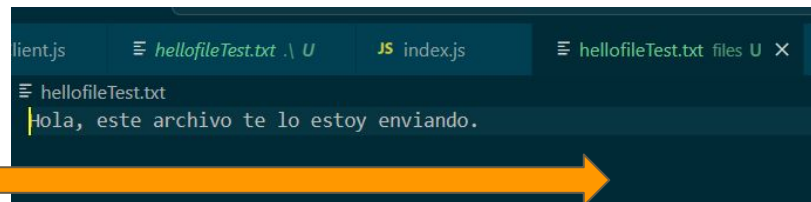
Enviar archivos



```
JS xmClient.js X  hellofileTest.txt U X  JS index.js
hellofileTest.txt
1  Hola, este archivo te lo estoy enviando.
```



```
files
hellofileTest.txt
```



```
client.js  hellofileTest.txt .\ U  JS index.js  hellofileTest.txt files U X
hellofileTest.txt
Hola, este archivo te lo estoy enviando.
```

```
>> Select an option: 8
Accessing files
Enter the path of the file you want to send: ./hellofileTest.txt
Enter the JID of the user you want to send the file to: jur1@alumchat.xyz

>> You have new notifications!

>> The file hellofileTest.txt sento to user: jur1@alumchat.xyz
```

```
7. Notifications
8. Files
9. Back to Main Menu

>> Select an option: >> New messages from jur20308test@alumchat.xyz/2uby
t6yn1d
>> File has been saved in route: ./files/hellofileTest.txt

>> You have new notifications!

>> Select an option: []
```

Ver notificaciones

```
--- Messaging Menu ---
```

1. Private Message
2. Broadcast Chat
3. Show Contacts
4. Add Contact
5. Contact Info
6. Change Status
7. Notifications
8. Files
9. Back to Main Menu

```
>> Select an option: 7  
Showing notifications...
```

```
-----
```

```
)
```

```
-> jur20308test@alumchat.xyz/2ubyt6yn1d changed status to Active at 12:53:45.
```

```
)
```

```
-> New message from: jur20308test@alumchat.xyz/2ubyt6yn1d check your messages...)
```

```
-> New file shared from: jur20308test@alumchat.xyz/2ubyt6yn1d...)
```

```
-----
```

Dificultades en el desarrollo del cliente XMPP

- No se lograba conexión con servidor en JAVA o Python
 - Curva de aprendizaje de conectar el cliente en distintos lenguajes incluyendo JS.
 - Dificultad para identificar las stanzas que el server envía de respuesta
 - Creación de groupchats
-

Cómo resolví las dificultades

- Investigar y probar en distintos lenguajes de programación con las librerías disponibles
 - Consultar la documentación de XMPP en JS
 - Usar la consola de Gajim para entender la composición de la stanza que el servidor envía de respuesta
-

¿Qué aprendí?

Dada la extensibilidad y personalización que tiene utiliza XMPP se puede fácilmente realizar muchas funcionalidades mediante la comunicación y la creación de stanzas. Esto nos permite tener servicios de mensajería instantánea sencillos.