

CARACTERÍSTICAS IMPLEMENTADAS

REGISTER

```
---- Chat Redes -----
Available options:
1) Register a new account on the server
Log in with an account
3) Log out with an account
4) Delete account from the server
5) Exit
Enter an option: 2
---- Login ----
Enter the following data to log in...
Username: Hola20541
Enter password:
Something went wrong, please try again
Your username or password is incorrect
Or your account doesn't exist on the server
```

```
----- Chat Redes -----
Available options:
1) Register a new account on the server
Log in with an account
3) Log out with an account
4) Delete account from the server
5) Exit
Enter an option: 1
---- Register ----
To register a new account, we need some information...
1) Username: Hola20541
Enter password:
3) Confirm password:
Account created successfully!!!
```

LOGIN

```
----- Chat Redes -----
Available options:
1) Register a new account on the server
2) Log in with an account
3) Log out with an account
4) Delete account from the server
5) Exit
Enter an option: 2
---- Login ----
Enter the following data to log in...
1) Username: Hola20541
2) Enter password:
Welcome!!!
----- Chat Network -----
Connected User: Hola20541
Available options:
1) Show all contacts and their status
2) Add a user to contacts
3) Show contact details
4) One-to-one communication with any user/contact
5) Participate in group conversations
6) Set presence message
7) Notifications
8) Send/receive files
9) Log out
Enter an option:
```

LOGOUT

```
----- Chat Network ------
Connected User: Hola20541
Available options:
1) Show all contacts and their status
2) Add a user to contacts
Show contact details
4) One-to-one communication with any user/contact
5) Participate in group conversations
6) Set presence message
7) Notifications
Send/receive files
9) Log out
Enter an option: 9
Session closed successfully! Come back soon!
----- Chat Redes -----
Available options:

    Register a new account on the server

2) Log in with an account
Delete account from the server
4) Exit
Enter an option:
```

DELETE ACCOUNT

```
---- Chat Redes -----
Available options:
1) Register a new account on the server
2) Log in with an account
3) Delete account from the server
4) Exit
Enter an option: 3
---- Delete account ----
Enter the following data to log in...
1) Username: Hola20541
2) Enter password:
Do you want to delete this account from the server? (y/n): y
Account deleted from the server successfully
```

```
---- Chat Redes -----
Available options:
1) Register a new account on the server
2) Log in with an account
3) Delete account from the server
4) Exit
Enter an option: 3
---- Delete account ----
Enter the following data to log in...
1) Username: Hola20541
2) Enter password:
Do you want to delete this account from the server? (y/n): y
Account deleted from the server successfully
----- Chat Redes -----
Available options:
1) Register a new account on the server
2) Log in with an account
Delete account from the server
4) Exit
Enter an option: 2
---- Login ----
Enter the following data to log in...
1) Username: Hola20541
Enter password:
Something went wrong, please try again
Your username or password is incorrect
Or your account doesn't exist on the server
```

EXIT

```
----- Chat Redes -----
Available options:

1) Register a new account on the server

2) Log in with an account

3) Delete account from the server

4) Exit

Enter an option: 4
Thanks for use this Client!!

PS C:\Users\Usuario\Desktop\8vo. Semestre UVG 2023\Redes\XMPP_Client
```

SHOW ALL CONTACTS

Chat Network Connected User: gar20541redes							
Available options: 1) Show all contacts and their status 2) Add a user to contacts 3) Show contact details 4) One-to-one communication with any user/contact 5) Participate in group conversations 6) Set presence message 7) Notifications 8) Send/receive files 9) Log out Enter an option: 1							
Contact List							
Name	JID	Status	Status message				
p20541A	p20541a@alumchat.xyz	Available	No status				
p20541B	p20541b@alumchat.xyz	Available	Estoy desayunando				
bar20807	bar20807@alumchat.xyz	Not available	No status				

Chat Network	_
Connected User: gar20541redes	

Available options:

- 1) Show all contacts and their status
- 2) Add a user to contacts
- 3) Show contact details
- 4) One-to-one communication with any user/contact
- 5) Participate in group conversations
- 6) Set presence message
- 7) Notifications
- 8) Send/receive files
- 9) Log out

Enter an option: 2

Contact username: test20541

Contact invitation sent successfully.

Available options: 1) Show all contacts and their status 2) Add a user to contacts 3) Show contact details 4) One-to-one communication with any user/contact 5) Participate in group conversations 6) Set presence message							
 Show all contacts and their status Add a user to contacts Show contact details One-to-one communication with any user/contact 							
Enter an option: 1							
++							
Name							
test20541 test20541@alumchat.xyz Available No status							
p20541A							
p20541B							
++ bar20807							

ADD CONTACT

USER DETAILS

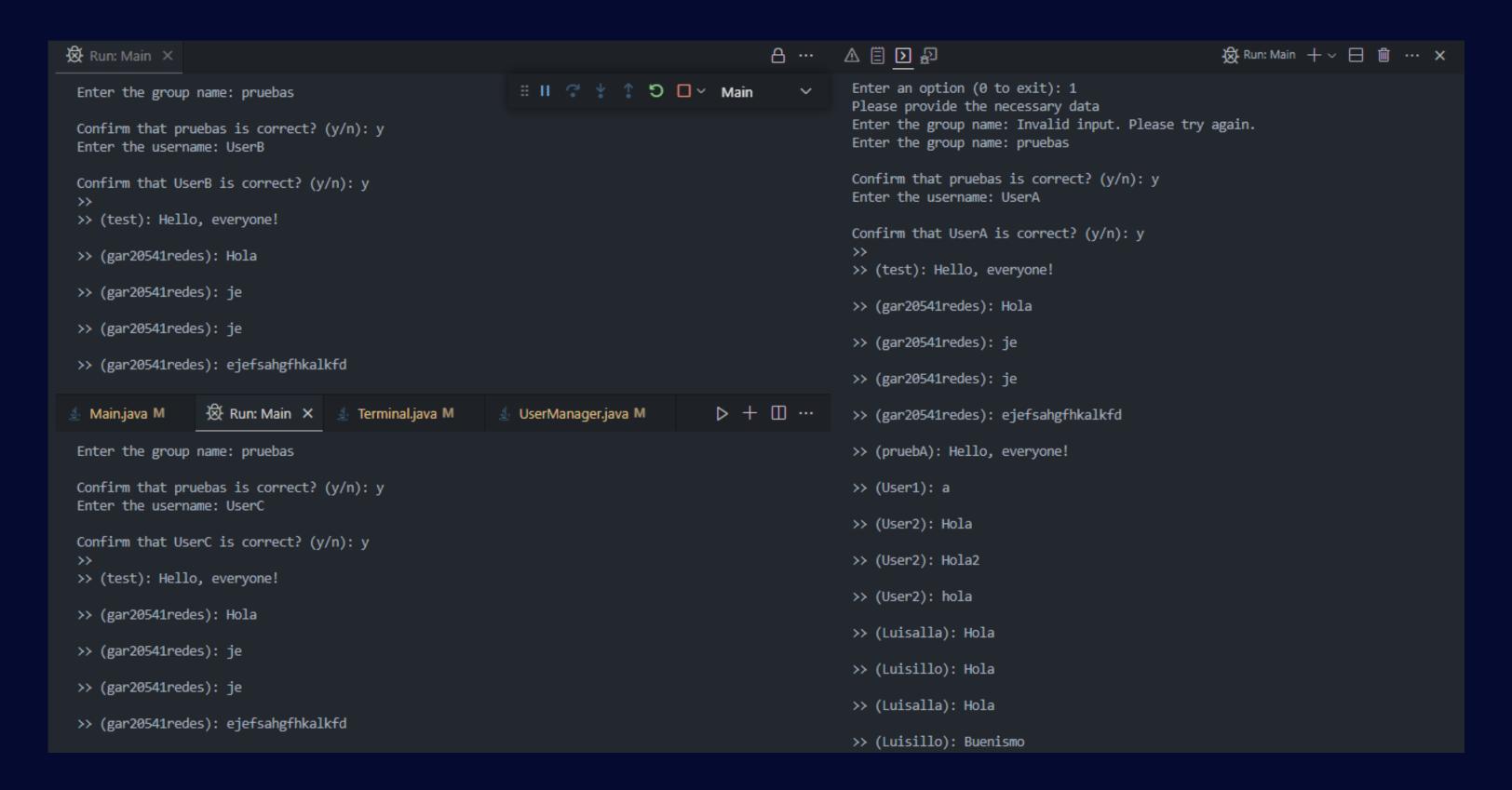
Chat Network Connected User: gar20541redes							
Available options: 1) Show all contacts and their status 2) Add a user to contacts 3) Show contact details 4) One-to-one communication with any user/contact 5) Participate in group conversations 6) Set presence message 7) Notifications 8) Send/receive files 9) Log out Enter an option: 3							
Contact username: test20541							
User Information							
JID	Username	 Status					
test20541@alumchat.xyz	test20541	Available					
+	+	++					
Can See My Presence	Can See His Presence	Status					
No	Yes	No status					
+		++					

Chat Network Connected User: gar20541rede							
Available options: 1) Show all contacts and the 2) Add a user to contacts 3) Show contact details 4) One-to-one communication 5) Participate in group conv 6) Set presence message 7) Notifications 8) Send/receive files 9) Log out	with any user/contact						
Enter an option: 3 Contact username: p20541b							
User	r Information						
+ JID	Username	+ Status					
p20541b@alumchat.xyz	p20541B	Available					
Can See My Presence	Can See His Presence	Status					
Yes	Yes	Estoy desayunando					

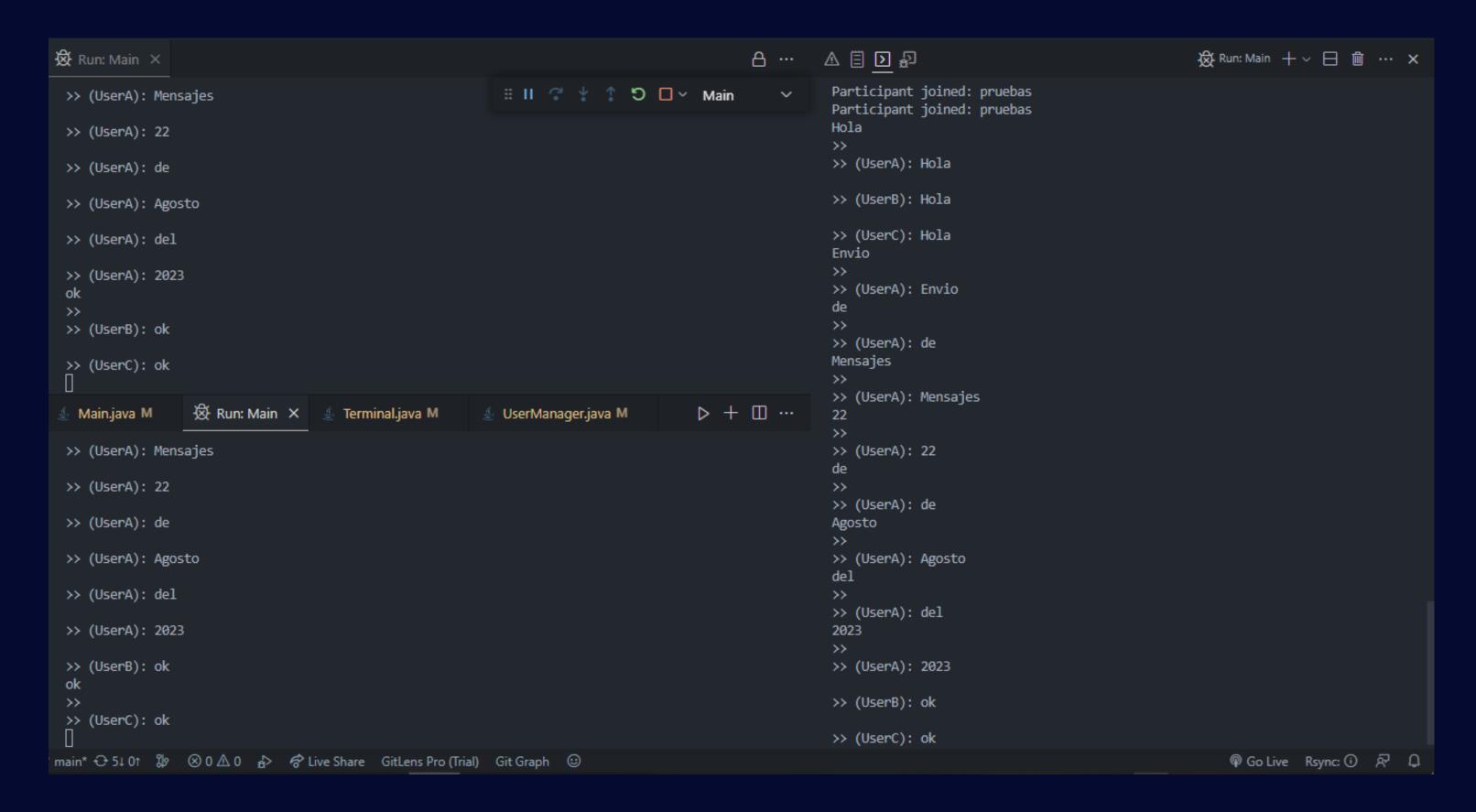
CHAT

```
Enter an option: 4
                                                                                                     Enter an option: 4
Available options
                                                                                                     Available options
1) Chat with contacts
                                                                                                     1) Chat with contacts
2) Chat with a new user
                                                                                                     2) Chat with a new user
                                                                                                     3) Exit
3) Exit
What would you like to do?: 1
                                                                                                     What would you like to do?: 1
These contacts are available...
                                                                                                     These contacts are available...
1) User: gar20541redes@alumchat.xyz | Status: Available
                                                                                                     1) User: test20541@alumchat.xyz | Status: Available
                                                                                                     2) User: p20541a@alumchat.xyz | Status: Available
Enter the contact number to start a conversation (0 to exit):
                                                                                                     3) User: p20541b@alumchat.xyz | Status: Available
Chat with gar20541redes@alumchat.xyz initiated. Type 'exit' to end the conversation.
                                                                                                     Enter the contact number to start a conversation (0 to exit): 1
                                                                                                     Chat with test20541@alumchat.xyz initiated. Type 'exit' to end the conversation.
>> >>
>> (gar20541redes@alumchat.xyz):
                                                                                                     >> >> Hola
>> (gar20541redes@alumchat.xyz): Hola
                                                                                                     >> (test20541@alumchat.xyz): Hola
Hola
                                                                                                     Todo bien
>>
                                                                                                     >>
>> (gar20541redes@alumchat.xyz): Todo bien
                                                                                                     >> (test20541@alumchat.xyz): Si, todo bien
Si, todo bien
                                                                                                     Bye
                                                                                                     >> Hasta la proxima
>> (gar20541redes@alumchat.xyz): Bye
                                                                                                     >> exit
>> (gar20541redes@alumchat.xyz): Hasta la proxima
                                                                                                     Chat with test20541@alumchat.xyz ended.
Hola?
>>
                                                                                                      ----- Chat Network -----
```

GROUP CHAT



GROUP CHAT



MESSAGE PRESENCE

Chat Network Connected User: gar20541redes							
Available options: 1) Show all contacts and their status 2) Add a user to contacts 3) Show contact details 4) One-to-one communication with any user/contact 5) Participate in group conversations 6) Set presence message 7) Notifications 8) Send/receive files 9) Log out Enter an option: 3 Contact username: test20541 User Information							
JID	Username	Status					
test20541@alumchat.xyz	test20541	Available					
Can See My Presence Yes		Status No status					

Chat Network
Connected User: test20541
Available options:
1) Show all contacts and their status
2) Add a user to contacts
3) Show contact details
4) One-to-one communication with any user/contact
5) Participate in group conversations
6) Set presence message
7) Notifications
8) Send/receive files
9) Log out
Faton on outlant C
Enter an option: 6
Enter your presence message: NuevoMensajeS Are you sure? (y/n): y
Presence message updated successfully!
riesence message updated successfully:
Chat Network
Connected User: test20541

- 6) Set presence message
- 7) Notifications8) Send/receive files
- 9) Log out

Enter an option: 1

Conta	(Contac	t List			+		
			St	atus		Sta	tus mess	age
at.xy	Lumcha	at.xyz	A\	ailabl	e	Nue	voMensaj	jeS
.xyz	nchat.	.xyz	No	ot avai	lable	No	status	
.xyz	nchat.	.xyz	No	ot avai	lable	No	status	
t.xyz	umchat	ıt.xyz	No	ot avai	lable	No	status	
t.xyz	umchat	t.xyz	No	t avai	lable	No 	status	

NOTIFICATIONS

Chat Network Connected User: test20541
Available options: 1) Show all contacts and their status 2) Add a user to contacts 3) Show contact details 4) One-to-one communication with any user/contact 5) Participate in group conversations 6) Set presence message 7) Notifications 8) Send/receive files 9) Log out
Enter an option: 7 Notifications:
Notification from: gar20541redes@alumchat.xyz Content: I'm online and available.
Notification from: gar20541redes@alumchat.xyz Content: I'm online and available.
Notification from: gar20541redes@alumchat.xyz Content: I've gone offline. See you next time!
Notification from: gar20541redes@alumchat.xyz Content: New message (gar20541redes@alumchat.xyz) says:
Notification from: gar20541redes@alumchat.xyz Content: New message (gar20541redes@alumchat.xyz) says: Hola

SEND FILES

These contacts are available 1) User: gar20541redes@alumchat.xyz Status: Available Enter the contact number to start a conversation (0 to exit): 1 Chat with gar20541redes@alumchat.xyz initiated. Type 'exit' to end the conversation. >> > Received text file content: Hi this is a File Test for Send Option Content	Enter an option: 8 Enter the following data to send files Enter the username: test20541 Confirm that test20541 is correct? (y/n): y Enter the path: src\main\java\test.txt Confirm that src\main\java\test.txt is correct? (y/n): y File extension: txt File sent successfully.
<pre>test.txt x src > main > java ></pre>	Available options: 1) Show all contacts and their status 2) Add a user to contacts 3) Show contact details 4) One-to-one communication with any user/contact 5) Participate in group conversations 6) Set presence message 7) Notifications 8) Send/receive files 9) Log out Enter an option:

DIFICULTADES

- 1. Encontrar versiones funcionales de Maven
 - a. Prueba y error con ayuda de stackOverflow me ayudaron a encontrar una versión funcional
- 2. Conexión principal con Smack
 - a. Seguí uno de los tutoriales que coloqué como referencia en el main para saber por dónde comenzar
- 3. Métodos deprecados en su mayoría o que no funcionaban entre sí por versiones
 - a. Con ayuda de la documentación oficial y chatGPT generalmente encontraba métodos o pasos similares que compensaban lo que no funcionaba

DIFICULTADES

- 4. Lógica de threads y listeners
 - Inestigué más sobre los threads en Java y tuve que implementar un listener simple en un principio hasta saber cómo funcionaba, posteriormente fue agregando más cosas como cerrar los hilos, coordinar impresiones, etc.
- 5. Impresiones bonitas y ordenadas
 - Nuevamente a prueba y corrección procurando que se entendieran los mensajes enviados y recibidos. Cuenta con fallos leves por el tema de threads.

LECCIONES APRENDIDAS

- 1. Mejorar mi progresión y versionamiento con git
- 2. Comprender mejor el uso del protocolo XMPP
- 3. Un proyecto puede complicarse siempre más de lo que ya es. Tuve varios contratiempos y otros proyectos que me atrasaron y tuve que realizar muchas pruebas en cada opción para entender lo que sucedía.
- 4. Conocer más sobre las conexiones cliente-servidor y el tráfico de datos.

