# Submission Worksheet

**CLICK TO GRADE** 

https://learn.ethereallab.app/assignment/IT114-006-S2024/it114-chatroom-milestone-3-2024/grade/fj28

IT114-006-S2024 - [IT114] Chatroom Milestone 3 2024

#### Submissions:

Submission Selection

1 Submission [active] 4/15/2024 2:45:49 PM

•

#### Instructions

^ COLLAPSE ^

Implement the Milestone 3 features from the project's proposal

document: https://docs.google.com/document/d/10NmvEvel97GTFPGfVwwQC96xSsobbSbk56145Xi

Make sure you add your ucid/date as code comments where code changes are done

All code changes should reach the Milestone3 branch

Create a pull request from Milestone3 to main and keep it open until you get the output PDF from this assignment.

Gather the evidence of feature completion based on the below tasks.

Once finished, get the output PDF and copy/move it to your repository folder on your local machine.

Run the necessary git add, commit, and push steps to move it to GitHub

Complete the pull request that was opened earlier

Upload the same output PDF to Canvas

Branch name: Milestone3

Tasks: 14 Points: 10.00



Basic UI (2 pts.)

^COLLAPSE ^



Task #1 - Points: 1

Text: Screenshots of the following

Checklist

\*The checkboxes are for your own tracking

#

**Points** 

Details

#1	1	Connection Panel
#2	1	User Details Panel
#3	1	Chat Panel
#4	1	Clearly caption screenshots

Task Screenshots:

# Gallery Style: Large View

Small Medium Large

\*\*Client\*\*

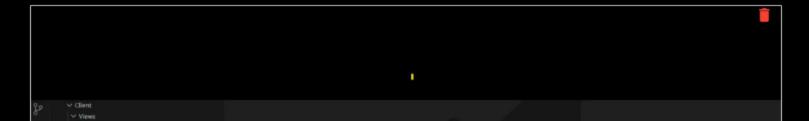
\*\*Views\*\*

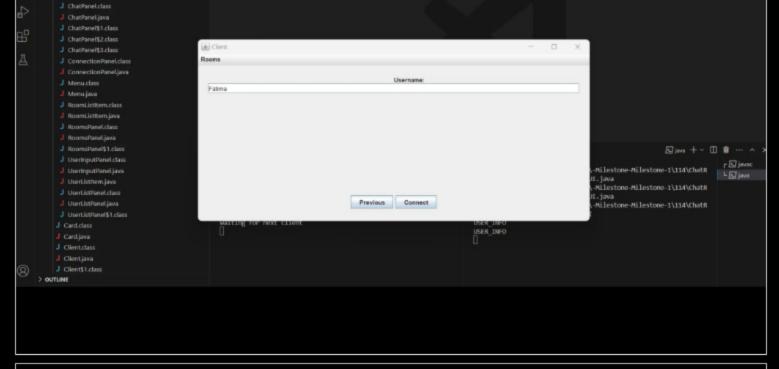
\*\*JunaPrentistas\*\*

\*\*J

#### Connection Panel

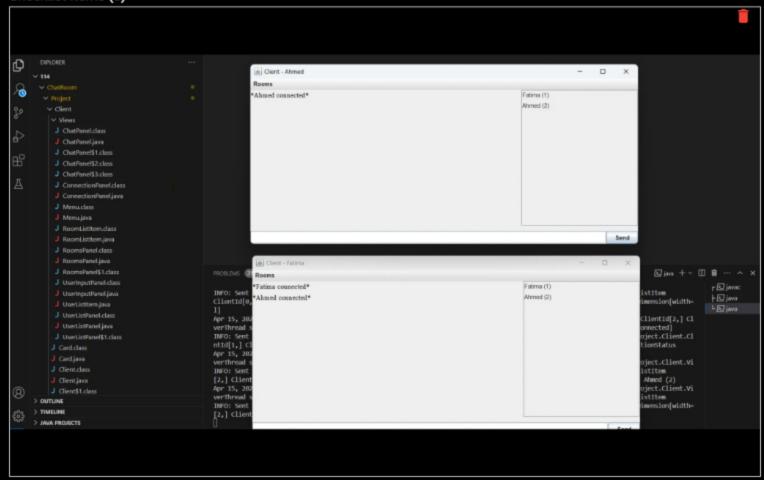
- #1 Connection Panel
- #2 User Details Panel
- #3 Chat Panel
- #4 Clearly caption screenshots



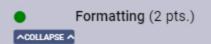


### User Details Panel

# Checklist Items (0)



### Chat Panel





## Task #1 - Points: 1

Text: Screenshots demoing flip and roll commands

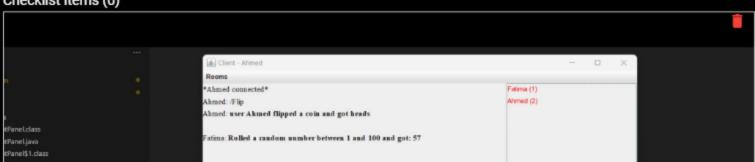
Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Flip output in a different format than normal messages
#2	1	Roll # output in a different format than normal messages
#3	1	Roll #d# output in a different format than normal messages
#4	1	Clearly caption screenshots

Task Screenshots:

Gallery Style: Large View



Flip output in a different format than normal messages





#### Roll # output in a different format than normal messages

## Checklist Items (1)

#2 Roll # output in a different format than normal messages



Roll #d# output in a different format than normal messages

### Checklist Items (0)



Task #2 - Points: 1

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Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Custom text formatting for bold working (Part of the message should appear bold)
#2	1	Custom text formatting for italic working (Part of the message should appear italic)
#3	1	Custom text formatting for underline working (Part of the message should appear underline)
#4	1	Custom text formatting for red working (Part of the message should appear red)
#5	1	Custom text formatting for blue working (Part of the message should appear blue)
#6	1	Custom text formatting for green working (Part of the message should appear green)
#7	1	Custom text formatting for combined bold, italic, underline, and a color working (Part of the message should have all 4 formats applied at once)
#8	1	Clearly caption screenshots

Task Screenshots:

Gallery Style: Large View

Small Medium Large d Client - Ahmed Rooms Fatima (1) Ahmed: /Flip Ahmed (2) Ahmed: user Ahmed flipped a coin and got heads Fatima: Rolled a random number between 1 and 100 and got: 57 Ahmed: user Ahmed rolled 2d6 and got 10 Fatima: Fatima Fatima: Fatima Fatima: Fatima Fatima: Fatima Fatima: Fatima Fatima: Fatima Send 🚣 Client - Fatima LEMS (I Rooms 🔁 java "Annieu connecteu" i],ClierAhmed: /Flip ?[\*FattinAhmed: user Ahmed flipped a coin and got heads 15, 207 ClientId[1 Ahmed (2) >Fatima</t >Fatima</i endMessa ): Send:Fatima: Rolled a random number between 1 and 100 and got: 57 ): Sendi: atma: Rolled a random number between 1
15, 202
fhread s Ahmed: user Ahmed rolled 2d6 and got 10
): Sent
| Client
| Client
| Fatima: Fatima
| 15, 202
Fatima: Fatima
| Fatima: Fatima >Fatima</L ClientId[1 ont color-ClientId[1 ont color: ClientId[1 ont color-Send

All items completed

^COLLAPSE ^

Task #3 - Points: T

Text: Screenshot of the code solving the formatting display

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Show each relevant file this was done in (may be one or more)
#2	1	Include ucid and date comment
#3	1	Clearly caption screenshots

Task Screenshots:

Gallery Style: Large View

Small Medium Large

```
//Date: 4.1.204
if (message.contains(s:"~")){
   String[] tEffects = message.split(regex:"");
   message = "";
    int count = 0;
    int count2 - 0;
    int indexcount = 0;
    for (int i = 0; i < tEffects.length; i++){
        if (tEffects[i].equals(anObject:"~")){
           count++;
           count2++;
            if (count == 1){
                indexcount = i;
                tEffects[i] = "<b>";
            if (count == 2){
               count = 0;
    if (count2%2 == 1){
       tEffects[indexcount] = "~";
    for(String i: tEffects){
       message+= i;
```

Screenshot of the code solving the formatting display

```
//FJ28
//Date: 4.1.204
if (message.contains(s:"!")){
    String[] tEffects = message.split(regex:"");
    message = "";
    int count = 0;
    int count2 = 0;
    int indexcount = 0;
    for (int i = 0; i < tEffects.length; i++){
        if (tEffects[i].equals(anObject:"!")){
            count++;
            count2++;
        }
}</pre>
```

```
if (count == 1){
    indexcount = i;
    tEffects[i] = "<i>";
}
if (count == 2){
    tEffects[i] = "</i>";
    count = 0;
}

if (count2%2 == 1){
    tEffects[indexcount] = "!";
}
for(String i: tEffects){
    message+= i;
}
```

## Screenshot of the code solving the formatting display

## Checklist Items (0)

## Screenshot of the code solving the formatting display

Screenshot of the code solving the formatting display

### Checklist Items (0)



Task #4 - Points: 1

Text: Explain how the formatting was made to be visible/rendered in the UI

Details:

Note each scenario

#### Response:

In ChatPanel.java, I modified JEditorPane. It was set to "text/plain" to "text/html." This change enabled the use of HTML tags for formatting sentences.

Private Message with @ (2 pts.)

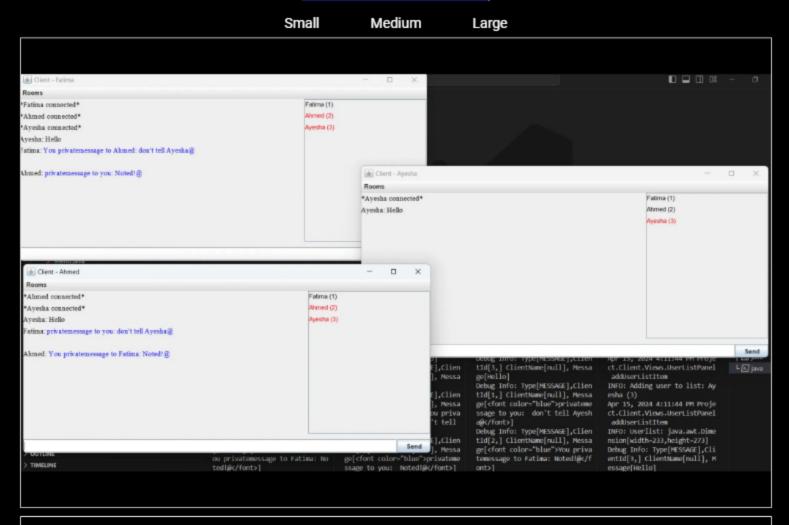


Task #1 - Points: 1

Text: Screenshots demoing private message

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Should have 3 clients in the same room
#2	1	Demo a private message where only the sender and target see the message
#3	1	Clearly caption screenshots

Task Screenshots:



#### Demo

## Checklist Items (0)

△COLLAPSE △

Task #2 - Points: 1

Text: Screenshots of the related code

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Show what code processes and handles the private message
#2	1	The message should only be sent to the receiver and the target
#3	1	The client should be targeting the username and the server side should be fetching the correct recipient
#4	1	Include ucid and date comment
#5	1	Clearly caption screenshots

Task Screenshots:

Gallery Style: Large View

Small Medium Large

```
| Cutton | Page | Server | J Source | Server | S
```

## Private message code

#### Checklist Items (5)

- #1 Show what code processes and handles the private message
- #2 The message should only be sent to the receiver and the target
- #3 The client should be targeting the username and the server side should be fetching the correct recipient
- #4 Include ucid and date comment
- #5 Clearly caption screenshots



#### Task #3 - Points: 1

Text: Explain how private message works related to the code above

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Include how the sender and receiver are handled
#2	1	Include how the username is used to get the proper id

#### Response:

Finding the Target User: If a word starts with "@", it is assumed to be a username. The username is extracted by

target user by calling the findUser method.

Sending the Private Message:

Sender's Perspective:

The sender constructs a message (senderMessage) formatted with a blue color, indicating it's a private message.

This message includes the sender's message content and the target user's name (targetUser.getClientName()).

The sender sends this message to themselves using sender.sendMessage(sender.getClientId(), senderMessage). Receiver's Perspective:

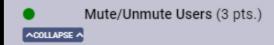
The receiver constructs a message (receiverMessage) formatted similarly in blue, indicating it's a private message. This message includes only the message content.

The receiver sends this message back to the sender using targetUser.sendMessage(sender.getClientId(), receiverMessage).

Handling Username to ID Mapping:

The code assumes that the findUser method takes a username as an argument and returns the corresponding ServerThread object representing that user.

The targetUser object retrieved is used to send the message to the correct recipient.





## Task #1 - Points: 1

Text: Screenshots demoing feature working

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Should have 3 clients in the same room
#2	1	Demo mute preventing messages between the muter and the target
#3	1	Demo mute also being accounted for with private messages
#4	1	Demo unmute allowing the messages again from the target to the unmuter

Task Screenshots:

Gallery Style: Large View

Medium

Large

Small

Rooms

\*Fatima connected\*

\*Ahmed connected\*

\*Alxied \*Ayesha connected\*

\*Alxied \*Ayesha connected\*

\*Alxied \*Ayesha : Hey

\*Rooms

\*Almed has been muled

\*Armed (2)

\*Alcoha (3)

\*Client - Ayesha

\*Armed (2)

\*Armed (3)

\*Armed (4)

\*Armed (5)

\*Armed (7)

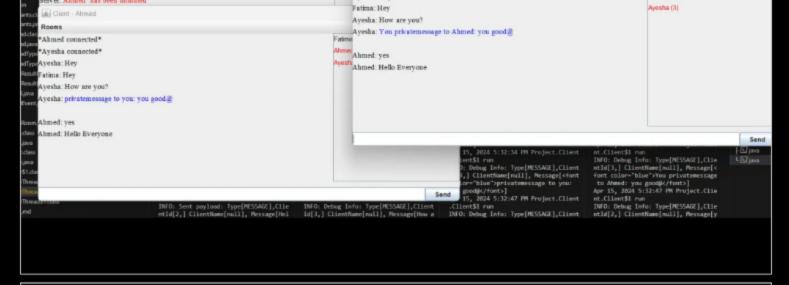
\*Armed (8)

\*Armed (8)

\*Armed (9)

\*Armed (10)

\*Armed (1



## Screenshots demoing feature working

## Checklist Items (4)

- #1 Should have 3 clients in the same room
- #2 Demo mute preventing messages between the muter and the target
- #3 Demo mute also being accounted for with private messages
- #4 Demo unmute allowing the messages again from the target to the unmuter



#### Task #2 - Points: 1

Text: Screenshots of the related code

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	ServerThread should have a list of who they muted
#2	1	ServerThread should expose and add, remove, and is muted check to room
#3	1	Room should handle the mute list when receiving the appropriate payloads
#4	1	Room should check the mute list during send message and private messages
#5	1	Include ucid and date comment
#6	1	Clearly caption screenshots

Task Screenshots:

Gallery Style: Large View

	Sitiali Mediditi Large
	<pre>private List<string> muteList = new ArrayList<string>();</string></string></pre>
,	//code for mute/unmute feature //Fl28

```
//4/15/24
public boolean sendMuteUser(String name){
    Payload p = new Payload();
    p.setPayloadType(PayloadType.MUTE);
    p.setClientName(name);
    return send(p);
public boolean sendUnmuteUser(String name){
    Payload p = new Payload();
    p.setPayloadType(PayloadType.UNMUTE);
    p.setClientName(name);
    return send(p);
public boolean isMuted(String name){
    for(String i: muteList){
        if(i.equals(name)){
             return true;
    return false;
```

#### ServerThread

### Checklist Items (2)

- #1 ServerThread should have a list of who they muted
- #2 ServerThread should expose and add, remove, and is muted check to room

```
187
188
189
// FJ28
//DATE: 04/15/24

191
192
public ServerThread findMute(String username) {
    for(ServerThread user : clients) {
        if(user.getClientName().equals(username)) {
            return user;
        }
        return null;
        }
        return null;
    }
```

.

Room

### Checklist Items (0)



Task #3 - Points: 1

Text: Explain how the mute and unmute logic works in relation to the code

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Explain how your mute list is handled
#2	1	Explain how it's handled/processed in send message and private message

#### Response:

In server thread, three methods are created: sendMuteUser, sendUnmuteUser, and isMuted. The isMuted method communicates with the room and involves Payload types: COMMAND, MUTE, and UNMUTE. These payloads are then processed through muteUser, unmuteUser, and processMute methods. A switch case is used: if the action is MUTE, it goes to muteUser; if it's UNMUTE, it goes to unmuteUser. Each method generates a new payload object named "p".





Task #1 - Points: 1

Text: Add the pull request link for the branch



Note: the link should end with /pull/#

#### **URL #1**

https://github.com/fj29/-Milestone-Milestone-1/pull/3



Task #2 - Points: 1

Text: Talk about any issues or learnings during this assignment

#### Response:

The assignment went quite well overall, and I didn't encounter any major issues. I learned about the ChatPanels and more about the other java files. The ClientUI code was detailed and insightful



Task #3 - Points: 1

Text: WakaTime Screenshot

CAL. Waka I lille Goldenbliot

Details:

Grab a snippet showing the approximate time involved that clearly shows your repository. The duration isn't considered for grading, but there should be some time involved.

Small

■ Java - 9h 43m (100.00%)

Task Screenshots:

Gallery Style: Large View

Medium

Large

■ VS Code - 9h 43m (100.00%)

WakaTime

**End of Assignment**