Submission Worksheet

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https://learn.ethereallab.app/assignment/IT114-006-S2024/it114-milestone-2-chatroom-2024/grade/bm47

IT114-006-S2024 - [IT114] Milestone 2 Chatroom 2024

Submissions:

Submission Selection

1 Submission [active] 4/3/2024 7:23:33 PM

Instructions

↑ COLLAPSE ↑

Implement the Milestone 2 features from the project's proposal document:

https://docs.google.com/document/d/10NmvEvel97GTFPGfVwwQC96xSsobbSbk56145XizQG4/view

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

Create a pull request from Milestone2 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: Milestone2

Tasks: 12 Points: 10.00

Demonstrate Usage of Payloads (2 pts.)

ACOLLAPSE A

ACOLLAPSE A

Task #1 - Points: 1

Text: Screenshots of your Payload class and subclasses and PayloadType

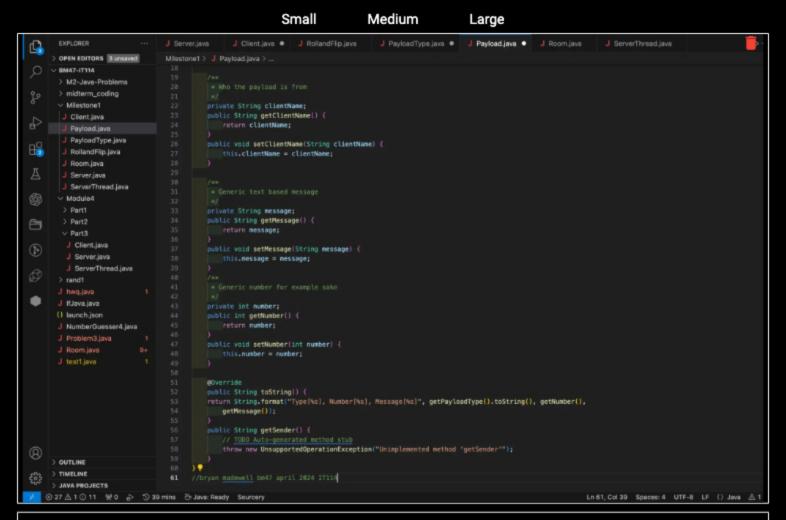
Checklist

*The checkboxes are for your own tracking

#	Points	Details
#1	1	Payload, equivalent of RollPayload, and any others
#2	1	Screenshots should include ucid and date comment
#3	1	Each screenshot should be clearly captioned

Task Screenshots:

Gallery Style: Large View



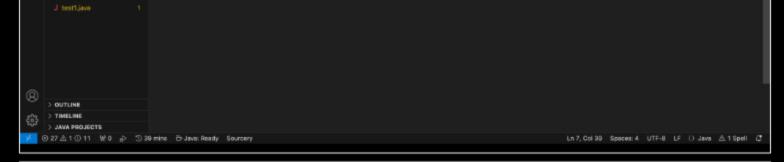
payload.java

Checklist Items (0)

```
J Client.java ● J RollandFlip.java
                                                                                              J PayloadType.java ● J Payload.java ● J Room.java
      OPEN EDITORS 3 unusued
     ∨ BM47-IT114 📑 🖺 🖰 🗇
       > M2-Java-Problems
                                            public enum PayloadType (
CONNECT, DISCONNECT, MESSAGE
       J Client.java
        J Payload.java

J PayloadType,java

        J RollandFlip.java
        J Server.java
        J ServerThread.lava
       ∨ Module4
        > Part1
        > Part2
8
        ∨ Part3
         J Client.java
         J Server.java
         J ServerThread.java
        J IfJava.java
       () launch.ison
       J NumberGuesser4.java
```



payloadtype.java

Checklist Items (0)



Task #2 - Points: 1

Text: Screenshots of the payloads being debugged/output to the terminal

Small

Checklist	Checklist *The checkboxes are for your own tracking	
#	Points	Details
#1	1	Demonstrate flip
#2	1	Demonstrate roll (both versions)
#3	1	Demonstrate formatted message along with any others
#4	1	Each screenshot should be clearly captioned

Task Screenshots:

Gallery Style: Large View

Medium

Large

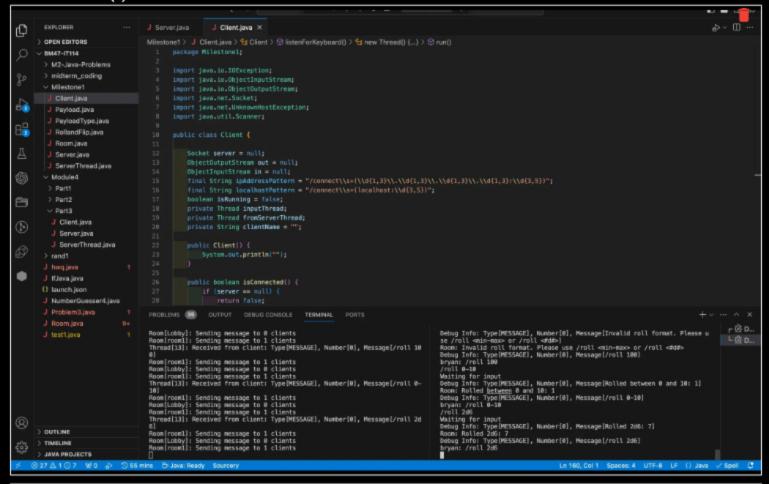
PROBLEMS 36 OUTPUT DEBUG CONSOLE TERMINAL PORTS

Thread[13]: Thread starting
Thread[13]: Received from client: Type[CONNECT], Number[0], Message[mull]
Thread[13]: Received from client: Type[MESSAGE], Number[0], Message[hello in lobby]
Room[Lobby]: Sending message to 1 clients
Room Incomal; Sending message to 1 clients
Thread-0 leaving room Lobby
Thread[13]: Received from client: Type[MESSAGE], Number[0], Message[/creater with the property of the property of

flip is shown working in the terminal. after executing the /flip command, the terminal says "debug Info: Type[MESSAGE],

Number[0], Message[Flipped a coin: Tails] Room: Flipped a coin: Tails"

Checklist Items (0)



the terminal shows the /roll 0-10 and /roll 2d6 working properly after the commands are executed.

Checklist Items (0)

```
PROBLEMS 35 OUTPUT DEBUG CONSOLE TERMINAL PORTS

101
Room[room1]: Sending message to 1 clients
Room[room1]: Sending message to 0 clients
Room[room1]: Sending message to 1 clients
Room[room1]: Sending message to 1 clients
Room[loom1]: Sending message to 1 clients
Room[loom2]: Sendin
```

clearly shows the text formatting working. when i type with &blue, it shows that the text is wrapped in HTML.

Checklist Items (0)



Task #3 - Points: 1

Text: Explain the purpose of payloads and how your flip/roll payloads were made

Response:

Payloads allow you to add more information to a client/server request/response. This information is like metadata that gives the client code information that can be used to do things other than just display the message. The flip/roll payloads use a command and message portion to inform the client disconnected if it was just the message sent.

Demonstrate Roll Command (2 pts.)



Task #1 - Points: 1

Text: Screenshot of the following items

Checklist *The checkboxes are for your own track		
#	Points	Details
#1	1	Client code that captures the command and converts it to a RollPayload (or equivalent) for both scenarios /roll # and /roll #d#
#2	1	ServerThread code receiving the payload and passing it to the Room
#3	1	Room handling the roll action correctly for both scenarios (/roll # and /roll #d#) including the message going back out to all clients
#4	1	Code screenshots should include ucid and date comment
#5	1	Each screenshot should be clearly captioned

Task Screenshots:

Gallery Style: Large View

Medium

Large

Small

```
J Server.java J Client.java ● J Payload.java J RollandFlip.java J Room.java ●

Milestone1 > J Client.java > ② Client > ③ processMessage(Payload)

210
211
212
213
214
215
};
```

```
fromServerThread.start();// start the thread
218
      //bryan madewell bm47 IT114 april 2024
          private void processMessage(Payload p) {
              switch (p.getPayloadType()) {
                  case CONNECT:// for now connect, disconnect are all the same
                  case DISCONNECT:
                       System.out.println(String.format("*%s %s*",
                               p.getClientName(),
                               p.getMessage()));
                       break;
                   case MESSAGE:
                       System.out.println(String.format("%s: %s",
                               p.getClientName(),
                               p.getMessage()));
                       break;
                  default:
                       break:
```

shows payload information

Checklist Items (0)

```
PROBLEMS 48 OUTPUT DERUC COMBOLE TERMINAL FORTS

Rosafronal): Sending restage to 3 clients.
Thread(13): Rectived from client: Type(MFSSAGE), Number(8), Message[/flip]
Rosafronal): Sending nessage to 3 clients
Rosafronal): Sending nessage to 4 clients
Rosafronal): Sending nessage to 5 clients
Rosafronal): Sending nessage to
```

terminal showing both /roll 0-10 and /roll2d6 working correctly

Checklist Items (0)



Task #2 - Points: 1

Text: Explain the logic in how the two different roll formats are handled and how the message flows from the client, to the Room, and shared with all other users

Response:

The roll formats have their own handlers that wait for what command is coming in and checks based on that using the Payload format.

Demonstrate Flip Command (1 pt.)



Task #1 - Points: 1

Text: Screenshot of the following items

C	Checklist *The checkboxes are for your own tracking		
	#	Points	Details
	#1	1	Client code that captures the command and converts it to a payload
	#2	1	ServerThread receiving the payload and passing it to the Room
	#3	1	Room handling the flip action correctly
	#4	1	Code screenshots should include ucid and date comment
	#5	1	Each screenshot should be clearly captioned

Task Screenshots:

Gallery Style: Large View

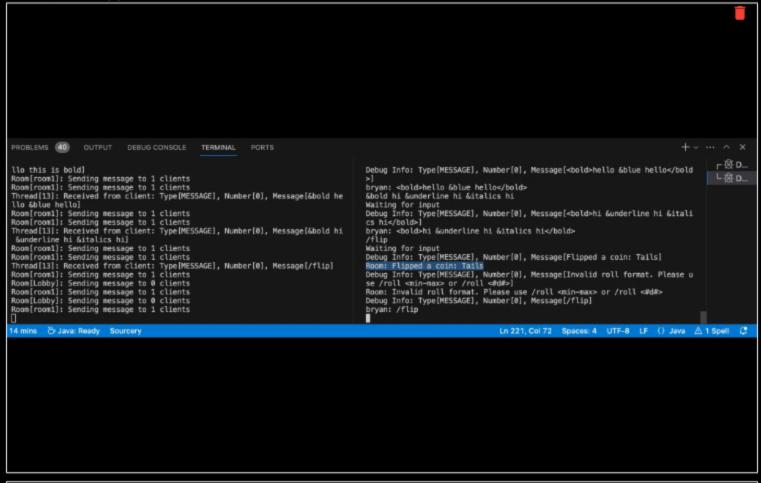
Small Medium Large

```
J Server.java
                  J Client.java •
                                   J Payload.java
                                                       J RollandFlip.java
                                                                              J Room.java ●
Milestone1 > J Client.java > 4 Client > 1 processMessage(Payload)
           private void processMessage(Payload p) {
               switch (p.getPayloadType())
221
                   case CONNECT:// for now connect, disconnect are all the same
                   case DISCONNECT:
                       System.out.println(String.format("*%s %s*",
                               p.getClientName(),
                                p.getMessage()));
                       break;
                   case MESSAGE:
                       System.out.println(String.format("%s: %s",
                               p.getClientName(),
                                p.getMessage()));
                       break;
                   default:
           public void start() throws IOException {
               listenForKeyboard();
           private void close() {
                   inputThread.interrupt();
```

245 Catch (Exception e) {

payload information

Checklist Items (0)



terminal that shows flip working correctly

Checklist Items (0)

△COLLAPSE △

Task #2 - Points: 1

Text: Explain the logic in how the flip command is handled and processed and how the message flows from the client, to the Room, and shared with all other users

Response:

The message goes from the client, to the server, and then to the room. The flip command is processed in the room code (processMessage).

Demonstrate Formatted Messages (4 pts.)



Task #1 - Points: 1

Text: Screenshot of Room how the following formatting is processed from a message

Details:

Note: this processing is server-side

Slash commands are not valid solutions for this and will receive 0 credit

Small

Checklist *The checkboxes are for your own tracking # **Points** Details #1 1 Room code processing for bold 1 #2 Room code processing for italic 1 #3 Room code processing for underline #4 1 Room code processing for color (at least R, G, B or support for hex codes) Show each one working individually and one showing a combination of all of the formats 1 #5 and 1 color from the terminal 1 #6 Must not rely on the user typing html characters, but the output can be html characters 1 Code screenshots should include ucid and date comment #7 #8 1 Each screenshot should be clearly captioned

Task Screenshots:

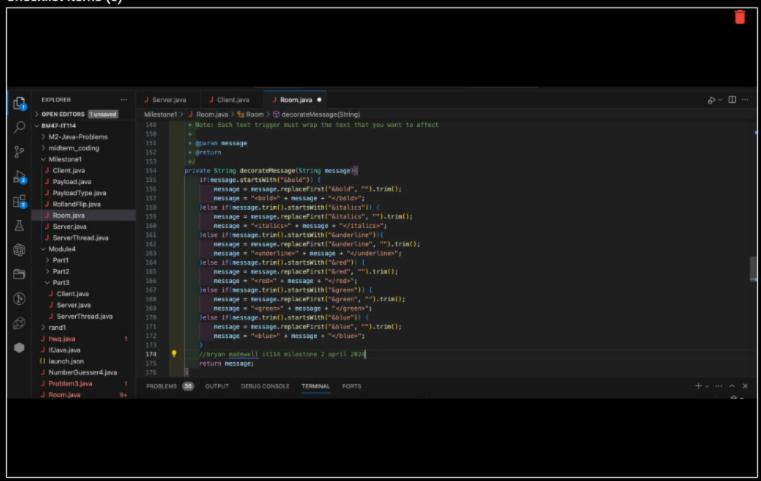
Gallery Style: Large View

Medium

Large PROBLEMS (35) OUTPUT DEBUG CONSOLE TERMINAL PORTS **┌俊D**... Thread[13]: Received from client: Type[MESSAGE], Number[0], Message[/roll 2d L 俊 D.. | Room[room1]: Sending message to 1 clients | Room[room1]: Sending message to 8 clients | Room[room1]: Sending message to 8 clients | Room[room1]: Sending message to 8 clients | Room[room1]: Sending message to 1 clients | Room[room2]: Sending message to 1 clients | Room2 | Maiting for input
Debug Info: Type[MESSAGE], Number[0], Message[hi]
bryan: hi
hello Meating for input
Debug Info: Type(MESSAGE], Number[0], Message[hello]
bryan: hello
&blue hello message Waiting for input
Debug Info: Type[MESSAGE], Number[0], Message[<blue>hello message</blue>|
bryan: <a href="https://doi.org/10.1007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40.0007/j.com/bryan:40 Waiting for input
Debug Info: Type(MESSAGE), Number(0), Message(<bold>hello this is bold</bol bryan: <bold>hello this is bold</bold> 💍 Java: Ready Sourcery Ln 160, Col 1 Spaces: 4 UTF-8 LF () Java V Spell

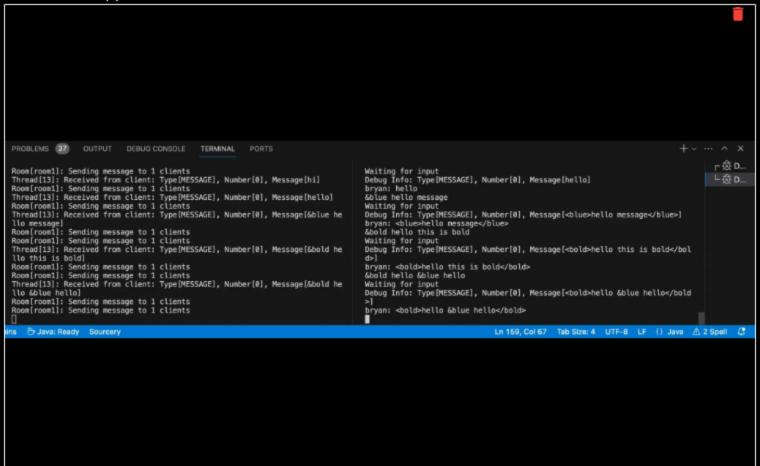
this shows the terminal output for when bold text is used.

Checklist Items (0)



room.java code for bold, italics, underline, red, green, and blue.

Checklist Items (0)



showing bold and blue being used in the same text message

Checklist Items (0)



Task #2 - Points: 1

Text: Explain the following

Checkl	ist		*The checkboxes are for your own tracking
#	ŧ	Points	Details
#	‡1	1	Which special characters translate to the desired effect
#	‡2	1	How the logic works that converts the message to its final format

Response:

The special characters that translate to a special text effect is the & key. There is code that splits the message, and every time there is a & key, it checks for the word after it. Once it is either bold, italic, or underline, it will give it the desired effect using HTML tags.





Task #1 - Points: 1

Text: Add the pull request link for the branch



Note: the link should end with /pull/#

URL #1

Missing URL



Task #2 - Points: 1

Text: Talk about any issues or learnings during this assignment

Response:

As the chatroom project gets more complicated, I begin running into more issues. I had some issues with payloads, getting the /flip and /roll commands to work, along with the chat effect like bold, italics, underline, and the colors to work properly. Eventually, I ended up figuring out some solutions that seem to work properly thus far. This milestone definitely helped me understand how the Java programming language works much more in depth than ever before.



Task #3 - Points: 1

Text: WakaTime Screenshot

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

Task Screenshots:

Gallery Style: Large View

Small Medium Large → C S wakatime.com/projects/bm47-it114?start=2024-03-28&end=2024-04-03 口女 ≈ O O : WakaTime Dashboard Projects • bm47-it114 5 Insights 3 hrs 38 mins over the Last 7 Days in bm47-it114. @ III Projects **I**■ Goals 0 00 00 00 < Shareables 0.4 ⊕ Leaderboards Integrations O Supported IDEs Languages Editors Blog API Doos Java - 3h 38m (99.90%) ■ VS Code - 3h 38m (100.00%) ■ JSON - 0m (0.01%) Community Plugin Status

WakaTime shows 3hrs 38mins over the last 7 days.