

Submission Worksheet

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<https://learn.ethereallab.app/assignment/IT114-006-S2024/it114-milestone-2-chatroom-2024/grade/sb57>

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

Submissions:

Submission Selection

1 Submission [active] 4/30/2024 7:40:42 PM

Instructions

^ COLLAPSE ^

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

<https://docs.google.com/document/d/1ONmvEvel97GTFPGfVwwQC96xSsobbSbk56145XizQG4/view>

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

All code changes should reach the Milestone2 branch

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.)

^ COLLAPSE ^



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

SmallMediumLarge

```
package Project.Common;

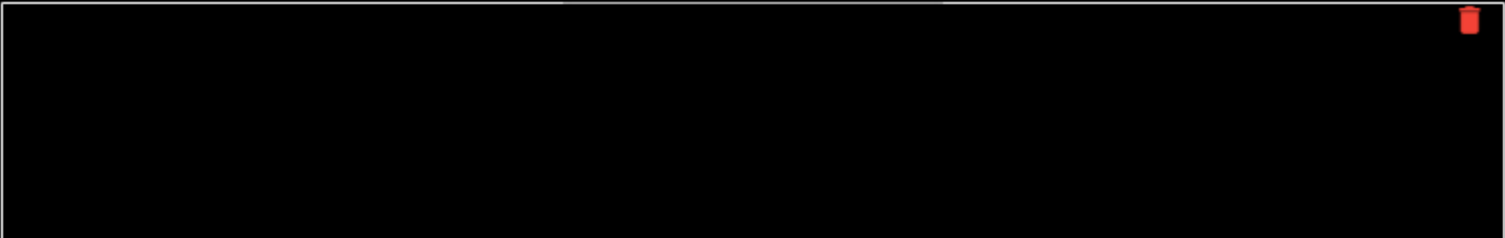
import java.io.Serializable;

public class Payload implements Serializable {
    private long clientId;
    public long getClientId() {
        return clientId;
    }
    public void setClientId(long clientId) {
        this.clientId = clientId;
    }
    private String clientName;
    public String getClientName() {
        return clientName;
    }
    public void setClientName(String clientName) {
        this.clientName = clientName;
    }
    // read https://www.baeldung.com/java-serial-version-uid
    private static final long serialVersionUID = 1L; // change this if the class changes
    /**
     * Determines how to process the data on the receiver's side
     */
    private PayloadType payloadType;
    public PayloadType getPayloadType() {
        return payloadType;
    }
    public void setPayloadType(PayloadType payloadType) {
        this.payloadType = payloadType;
    }
    /**
     * Generic text based message
     */
    private String message;
    public String getMessage() {
        return message;
    }
    public void setMessage(String message) {
        this.message = message;
    }
    @Override
    public String toString() {
        return String.format(format:"Type[%s], Message[%s], ClientId[%s], ClientName[%s]", getPayloadType().toString(),
            getMessage(), getClientId(), getClientName());
    }
}
```

Screenshot of Payload.java

Checklist Items (3)

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



```

package Project.Common;

public enum PayloadType {
    CONNECT, DISCONNECT, MESSAGE, CREATE_ROOM, JOIN_ROOM, LIST_ROOMS, CLIENT_ID, SYNC_CLIENT, FLIP, ROLL
}

//Shreya Bose
//sb57
//April 1, 2024

```

Screenshot of PayloadType.java

Checklist Items (3)

#1 Payload, equivalent of RollPayload, and any others

#2 Screenshots should include uid and date comment

#3 Each screenshot should be clearly captioned

```

package Project.Common;

import java.util.ArrayList;
import java.util.List;

public class RoomResultsPayload extends Payload {
    private List<String> rooms = new ArrayList<String>();
    /**
     * Used to limit the returned result set. Added after video recording
     */
    private int limit = 10;

    public int getLimit() {
        return limit;
    }

    public void setLimit(int limit) {
        this.limit = limit;
    }

    public RoomResultsPayload() {
        setPayloadType(PayloadType.LIST_ROOMS);
    }

    public List<String> getRooms() {
        return rooms;
    }

    public void setRooms(List<String> rooms) {
        this.rooms = rooms;
    }
}

```

Screenshot of RoomResultsPayload.java

Checklist Items (3)

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

```
package Project.Common;

public class ConnectionPayload extends Payload {
    //Shreya Bose
    //sb57
    //April 1, 2024
    public ConnectionPayload() {
        setPayloadType(PayloadType.CLIENT_ID);
    }

    public ConnectionPayload(boolean isConnected) {
        setPayloadType(isConnected ? PayloadType.CONNECT : PayloadType.DISCONNECT);
    }

    /**
     * Who the payload is from
     */
    private String clientName;

    public String getClientName() {
        return clientName;
    }

    public void setClientName(String clientName) {
        this.clientName = clientName;
    }

    @Override
    public String toString() {
        return super.toString() + ", Client name " + getClientName();
    }
}
```

Screenshot of ConnectionPayload.java

Checklist Items (3)

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


[^ COLLAPSE ^](#)

Task #2 - Points: 1

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

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

SmallMediumLarge

```
INFO: Starting queue manager
May 01, 2024 4:29:16 PM Project.Server.Server start
INFO: waiting for next client
May 01, 2024 4:29:22 PM Project.Server.Server start
INFO: waiting for next client
May 01, 2024 4:29:22 PM Project.Server.Server start
INFO: Client connected
May 01, 2024 4:29:22 PM Project.Server.ServerThread info
INFO: Thread[null]: Thread created
May 01, 2024 4:29:22 PM Project.Server.ServerThread info
INFO: Thread[null]: Thread starting
May 01, 2024 4:29:22 PM Project.Server.ServerThread info
INFO: Thread[null]: Received from client: Type[CONNECT],
Message[null], ClientId[0], ClientName[Shreya], Client name
Shreya
May 01, 2024 4:29:22 PM Project.Server.Server joinRoom
INFO: Thread-1 joining room lobby
May 01, 2024 4:29:26 PM Project.Server.Server start
INFO: waiting for next client
May 01, 2024 4:29:26 PM Project.Server.Server start
INFO: Client connected
May 01, 2024 4:29:26 PM Project.Server.ServerThread info
INFO: Thread[null]: Thread created
May 01, 2024 4:29:26 PM Project.Server.ServerThread info
INFO: Thread[null]: Thread starting
May 01, 2024 4:29:26 PM Project.Server.ServerThread info
INFO: Thread[null]: Received from client: Type[CONNECT],
Message[null], ClientId[0], ClientName[Bud], Client name
Bud
May 01, 2024 4:29:26 PM Project.Server.Server joinRoom
INFO: Thread-2 joining room lobby
May 01, 2024 4:29:32 PM Project.Server.ServerThread info
INFO: Thread[Shreya]: Received from client: Type[MESSAGE],
Message[/roll], ClientId[0], ClientName[null]
May 01, 2024 4:29:32 PM Project.Server.Room sendMessage
INFO: Sending message to 2 clients
May 01, 2024 4:29:32 PM Project.Server.Room sendMessage
INFO: Sending message to 2 clients
May 01, 2024 4:29:43 PM Project.Server.ServerThread info
INFO: Thread[Shreya]: Received from client: Type[MESSAGE],
Message[/roll 206], ClientId[0], ClientName[null]
May 01, 2024 4:30:09 PM Project.Server.Room sendMessage
INFO: Sending message to 2 clients
May 01, 2024 4:30:09 PM Project.Server.Room sendMessage
INFO: Sending message to 2 clients
[]
```

```
INFO: Client connected
May 01, 2024 4:29:22 PM Project.Client.Client$1 run
INFO: Waiting for input
May 01, 2024 4:29:22 PM Project.Client.Client$2 run
INFO: Debug Info: Type[CLIENT_ID], Message[null], ClientId[1],
ClientName[Shreya], Client name Shreya
May 01, 2024 4:29:22 PM Project.Client.Client processPayload
INFO: My Client Id is 1
May 01, 2024 4:29:22 PM Project.Client.Client$2 run
INFO: Debug Info: Type[JOIN_ROOM], Message[lobby], ClientId[0],
ClientName[null]
May 01, 2024 4:29:22 PM Project.Client.Client$2 run
INFO: Debug Info: Type[CONNECT], Message[connected], ClientId[1],
ClientName[Shreya], Client name Shreya
May 01, 2024 4:29:22 PM Project.Client.Client processPayload
INFO: *Shreya connected*
May 01, 2024 4:29:26 PM Project.Client.Client$2 run
INFO: Debug Info: Type[CONNECT], Message[connected], ClientId[2],
ClientName[Bud], Client name Bud
May 01, 2024 4:29:26 PM Project.Client.Client processPayload
INFO: *Bud connected*
/roll
May 01, 2024 4:29:32 PM Project.Client.Client$1 run
INFO: Waiting for input
May 01, 2024 4:29:32 PM Project.Client.Client$2 run
INFO: Debug Info: Type[MESSAGE], Message[Invalid roll command.
Please specify the roll parameters, e.g., '/roll 2d 6' or '/roll 100'.],
ClientId[1], ClientName[null]
Shreya: Invalid roll command. Please specify the roll parameters,
e.g., '/roll 2d6' or '/roll 100'.
/roll 2d6
Id[2], ClientName[null]Bud: Rolled a 1 out of 1
/roll 6
May 01, 2024 4:30:09 PM Project.Client.Client$1 run
INFO: Waiting for inputMay 01, 2024 4:30:09 PM Project.Client.Client$2 run
INFO: Debug Info: Type[MESSAGE], Message[Rolled a 3 out of 6],
ClientId[1], ClientName[null]Shreya: Rolled a 3 out of 6
[]
```

```
INFO: Closing input stream
May 01, 2024 4:29:04 PM Project.Client.Client close
INFO: Closing connection
May 01, 2024 4:29:04 PM Project.Client.Client close
SEVERE: Closed socket
May 01, 2024 4:29:04 PM Project.Client.Client$2 run
INFO: Stopped listening to server input
/connect localhost:3000
May 01, 2024 4:29:26 PM Project.Client.Client connect
INFO: Client connected
May 01, 2024 4:29:26 PM Project.Client.Client$1 run
INFO: Waiting for input
May 01, 2024 4:29:26 PM Project.Client.Client$2 run
INFO: Debug Info: Type[CLIENT_ID], Message[null], ClientId[2],
ClientName[Bud], Client name Bud
May 01, 2024 4:29:26 PM Project.Client.Client processPayload
INFO: My Client Id is 2
May 01, 2024 4:29:26 PM Project.Client.Client$2 run
INFO: Debug Info: Type[JOIN_ROOM], Message[lobby], ClientId[0],
ClientName[null]
May 01, 2024 4:29:26 PM Project.Client.Client$2 run
INFO: Debug Info: Type[CONNECT], Message[connected], ClientId[2],
ClientName[Bud], Client name Bud
May 01, 2024 4:29:26 PM Project.Client.Client processPayload
INFO: *Bud connected*
May 01, 2024 4:29:26 PM Project.Client.Client$2 run
INFO: Debug Info: Type[SYNC_CLIENT], Message[null], ClientId[1],
ClientName[Shreya], Client name Shreya
May 01, 2024 4:29:32 PM Project.Client.Client$2 run
INFO: Debug Info: Type[MESSAGE], Message[Invalid roll command.
Please specify the roll parameters, e.g., '/roll 2d6' or '/roll 100'.],
ClientId[1], ClientName[null]
INFO: Debug Info: Type[MESSAGE], Message[Rolled a 1 out of 1],
ClientId[2], ClientName[null]
Bud: Rolled a 1 out of 1
May 01, 2024 4:30:09 PM Project.Client.Client$2 run
INFO: Debug Info: Type[MESSAGE], Message[Rolled a 3 out of 6],
ClientId[1], ClientName[null]
Shreya: Rolled a 3 out of 6
[]
```

Screenshot demonstrating both versions of Roll.

Checklist Items (3)

- #2 Demonstrate roll (both versions)
- #3 Demonstrate formatted message along with any others
- #4 Each screenshot should be clearly captioned

<pre>Project.Server.ServerThread info INFO: Thread[Shreya]: Received from client: Type[MESSAGE], Message[/roll 6], ClientId[0], ClientName[null] May 01, 2024 4:30:09 PM Project.Server.Room sendMessage INFO: Sending message to 2 clients May 01, 2024 4:30:09 PM Project.Server.Room sendMessage INFO: Sending message to 2 clients May 01, 2024 4:32:32 PM Project.Server.ServerThread info INFO: Thread[Shreya]: Received from client: Type[MESSAGE], Message[/flip], ClientId[0], ClientName[null] May 01, 2024 4:32:32 PM Project.Server.Room sendMessage INFO: Sending message to 2 clients May 01, 2024 4:32:32 PM Project.Server.Room sendMessage INFO: Sending message to 2 clients May 01, 2024 4:32:36 PM Project.Server.ServerThread info INFO: Thread[Bud]: Received from client: Type[MESSAGE], Message[/flip], ClientId[0], ClientName[null] May 01, 2024 4:32:36 PM Project.Server.Room sendMessage INFO: Sending message to 2 clients May 01, 2024 4:32:36 PM Project.Server.Room sendMessage INFO: Sending message to 2 clients []</pre>	<pre>Id[2], ClientName[null]Bud: Rolled a 1 out of 1 /roll 6 May 01, 2024 4:30:09 PM Project.Client.Client\$1 run INFO: Waiting for inputMay 01, 2024 4:30:09 PM Project.Client.Client\$2 run INFO: Debug Info: Type[MESSAGE], Message[Rolled a 3 out of 6], ClientId[1], ClientName[null]Shreya: Rolled a 3 out of 6 /flip May 01, 2024 4:32:32 PM Project.Client.Client\$1 run INFO: Waiting for inputMay 01, 2024 4:32:32 PM Project.Client.Client\$2 run INFO: Debug Info: Type[MESSAGE], Message[Flipped a coin and got tails], ClientId[1], ClientName[null] Shreya: Flipped a coin and got tails May 01, 2024 4:32:36 PM Project.Client.Client\$2 run INFO: Debug Info: Type[MESSAGE], Message[Flipped a coin and got heads], ClientId[2], ClientName[null] Bud: Flipped a coin and got heads []</pre>	<pre>INFO: Debug Info: Type[MESSAGE], Message[Rolled a 1 out of 1], ClientId[2], ClientName[null] Bud: Rolled a 1 out of 1 May 01, 2024 4:30:09 PM Project.Client.Client\$2 run INFO: Debug Info: Type[MESSAGE], Message[Rolled a 3 out of 6], ClientId[1], ClientName[null] Shreya: Rolled a 3 out of 6 May 01, 2024 4:32:32 PM Project.Client.Client\$2 run INFO: Debug Info: Type[MESSAGE], Message[Flipped a coin and got tails], ClientId[1], ClientName[null] Shreya: Flipped a coin and got tails /flip May 01, 2024 4:32:36 PM Project.Client.Client\$1 run INFO: Waiting for input May 01, 2024 4:32:36 PM Project.Client.Client\$2 run INFO: Debug Info: Type[MESSAGE], Message[Flipped a coin and got heads], ClientId[2], ClientName[null] Bud: Flipped a coin and got heads []</pre>
--	---	---

Screenshot demonstrating Flip.

Checklist Items (3)

#1 Demonstrate flip

#3 Demonstrate formatted message along with any others

#4 Each screenshot should be clearly captioned



^ COLLAPSE ^

Task #3 - Points: 1

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

Response:

The purpose of payloads is to handle the data and make sure it is communicated correctly between client and server. The flip payload only handles heads or tails while the roll payload handles the two different formats.



^ COLLAPSE ^

Demonstrate Roll Command (2 pts.)



^ COLLAPSE ^

Task #1 - Points: 1

Text: Screenshot of the following items

Checklist

*The checkboxes are for your own tracking

#	Points	Details
---	--------	---------

#	Points	Details
<input checked="" type="checkbox"/> #1	1	Client code that captures the command and converts it to a RollPayload (or equivalent) for both scenarios /roll # and /roll #d#
<input checked="" type="checkbox"/> #2	1	ServerThread code receiving the payload and passing it to the Room
<input type="checkbox"/> #3	1	Room handling the roll action correctly for both scenarios (/roll # and /roll #d#) including the message going back out to all clients
<input checked="" type="checkbox"/> #4	1	Code screenshots should include ucid and date comment
<input checked="" type="checkbox"/> #5	1	Each screenshot should be clearly captioned

Task Screenshots:

Gallery Style: Large View

Small

Medium

Large

```

} else if (text.equalsIgnoreCase(anotherString: "/flip")) {
    try {
        Payload p = new Payload();
        p.setPayloadType(PayloadType.FLIP);
        sendMessage(p);
    } catch (IOException e) {
        e.printStackTrace();
    }
    return true;
} else if (text.startsWith(prefix: "/roll ")) {
    try {
        Payload p = new Payload();
        p.setPayloadType(PayloadType.ROLL);
        p.setMessage(text.substring(beginIndex: 6));
        sendMessage(p);
    } catch (IOException e) {
        e.printStackTrace();
    }
    return true;
}

```

Screenshot of Client.java

Checklist Items (3)

#1 Client code that captures the command and converts it to a RollPayload (or equivalent) for both scenarios /roll # and /roll #d#

#4 Code screenshots should include ucid and date comment

#5 Each screenshot should be clearly captioned

```

case FLIP: //Shreya Bose
case ROLL: //sb57
    if (currentRoom != null) { //April 1, 2024
        String command = (p.getPayloadType() == PayloadType.FLIP ? "/flip" : "/roll " + p.getMessage());
        currentRoom.processCommands(command, this);
    }
    break;

```

Screenshot of ServerThread.java

Checklist Items (3)

#2 ServerThread code receiving the payload and passing it to the Room

#4 Code screenshots should include ucid and date comment

#5 Each screenshot should be clearly captioned

```

case ROLL:
if (comm2.length > 1) {
    diceRoll = comm2[1];
    if (diceRoll.contains(s:"d")) {
        String[] parts = diceRoll.split(regex:"d"); //Shreya Bose
        int numberOfDice = Integer.parseInt(parts[0]); //sb57
        int sides = Integer.parseInt(parts[1]); //April 1, 2024
        int total = 0;
        StringBuilder results = new StringBuilder("Rolling " + numberOfDice + "d" + sides + ": ");
        for(int i = 0; i < numberOfDice; i++) {
            int roll = (int) (Math.random() * sides) + 1;
            total += roll;
            results.append(roll).append(str:" ");
        }
        results.append(str:"Total: ").append(total);
        sendMessage(client, results.toString());
    } else {
        int max = Integer.parseInt(diceRoll);
        int roll = (int) (Math.random() * max) + 1;
        sendMessage(client, "Rolled a " + roll + " out of " + max);
    }
} else {
    sendMessage(client, message:"Invalid roll command. Please specify the roll parameters, e.g., '/roll 2d6' or '/roll 100'.");
}
break:

```


Screenshot of Room.java

Checklist Items (3)

#3 Room handling the roll action correctly for both scenarios (/roll # and /roll #d#) including the message going back out to all clients

#4 Code screenshots should include ucid and date comment

#5 Each screenshot should be clearly captioned

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 client sends the /roll payload, specifying whether it is in the 1-100 format or #d# format. It is passed to the Room class whether it is processed. The server receives the message and uses the format that was processed in Room.

Demonstrate Flip Command (1 pt.)

Task #1 - Points: 1

Text: Screenshot of the following items

Checklist

*The checkboxes are for your own tracking

#	Points	Details
<input type="checkbox"/> #1	1	Client code that captures the command and converts it to a payload
<input type="checkbox"/> #2	1	ServerThread receiving the payload and passing it to the Room
<input type="checkbox"/> #3	1	Room handling the flip action correctly
<input type="checkbox"/> #4	1	Code screenshots should include ucid and date comment
<input type="checkbox"/> #5	1	Each screenshot should be clearly captioned

Task Screenshots:

Gallery Style: Large View

```

} else if (text.equalsIgnoreCase(anotherString: "/flip")) {
    try {
        Payload p = new Payload();
        p.setPayloadType(PayloadType.FLIP);
        sendMessage(p); //Shreya Bose
    } catch (IOException e) { //sb57
        e.printStackTrace(); //April 1, 2024
    }
    return true;
}

```

Screenshot of Client.java

Checklist Items (3)

- #1 Client code that captures the command and converts it to a payload
- #4 Code screenshots should include ucid and date comment
- #5 Each screenshot should be clearly captioned

```

case FLIP: //Shreya Bose
case ROLL: //sb57
    if (currentRoom != null) { //April 1, 2024
        String command = (p.getPayloadType() == PayloadType.FLIP ? "/flip" : "/roll " + p.getMessage());
        currentRoom.processCommands(command, this);
    }
    break;

```

Screenshot of ServerThread.java

Checklist Items (3)

#2 ServerThread receiving the payload and passing it to the Room

#4 Code screenshots should include ucid and date comment

#5 Each screenshot should be clearly captioned

```
case FLIP:
    Random random = new Random();
    String result = random.nextBoolean() ? "heads" : "tails";
    sendMessage(client, "Flipped a coin and got " + result);
    break;
```

//Shreya Bose
//sb57
//April 1, 2024

Screenshot of Room.java

Checklist Items (3)

#3 Room handling the flip action correctly

#4 Code screenshots should include ucid and date comment

#5 Each screenshot should be clearly captioned

^ 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 client sends the /flip payload=. It is passed to the Room class whether it is processed. The server receives the message and uses the format that was processed in Room which is straightforward and spits out either heads or tails.

^ COLLAPSE ^

Demonstrate Formatted Messages (4 pts.)

^ COLLAPSE ^

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

Checklist

*The checkboxes are for your own tracking

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

Task Screenshots:

Gallery Style: Large View

Small

Medium

Large

```
} //Shreya Bose
//sb56
//April 1, 2024

private String formatMessage(String message) {
    message = message.replaceAll(regex:"\\*([\\^\\*]+)\\*", TextFX.colorize(text:"$1", TextFX.Color.RED)); // Bold as red
    message = message.replaceAll(regex:"_([\\^_]+)_", TextFX.colorize(text:"$1", TextFX.Color.GREEN)); // Italics as green
    message = message.replaceAll(regex:"~([\\^~]+)~", TextFX.colorize(text:"$1", TextFX.Color.BLUE)); // Underline as blue
    return message;
}
```

Screenshot of Room.java

Checklist Items (7)

#1 Room code processing for bold

#2 Room code processing for italic

#3 Room code processing for underline

#4 Room code processing for color (at least R, G, B or support for hex codes)

#6 Must not rely on the user typing html characters, but the output can be html characters

#7 Code screenshots should include ucid and date comment

#8 Each screenshot should be clearly captioned

```
Project.Server.Server joinRoom
INFO: Thread-1 joining room test
May 01, 2024 5:13:48 PM Project.Server.ServerThread info
INFO: Thread[Shreya]: Received from client: Type[MESSAGE]
, Message[h1], ClientId[0], ClientName[null]
May 01, 2024 5:13:48 PM Project.Server.Room sendMessage
INFO: Sending message to 1 clients
May 01, 2024 5:15:21 PM Project.Server.ServerThread info
INFO: Thread[Shreya]: Received from client: Type[MESSAGE]
oad
INFO: *Shreya connected*
May 01, 2024 5:13:26 PM Project.Client.Client$2 run
INFO: Debug Info: Type[CONNECT], Message[connected], ClientId[2], ClientName[Bud], Client name Bud
May 01, 2024 5:13:26 PM Project.Client.Client processPayl
CONNECT], Message[connected], ClientId[1], ClientName[Shreya], Client name Shreya
May 01, 2024 5:13:44 PM Project.Client.Client processPayl
May 01, 2024 5:12:49 PM Project.Client.Client$1 run
INFO: Listening for input
May 01, 2024 5:12:49 PM Project.Client.Client$1 run
INFO: Waiting for input
/name Bud
May 01, 2024 5:13:21 PM Project.Client.Client isName
INFO: Name set to Bud
May 01, 2024 5:13:21 PM Project.Client.Client$1 run
INFO: Waiting for input
```



```
, Message[*hi], ClientId[0], ClientName[null]
May 01, 2024 5:15:21 PM Project.Server.Room sendMessage
INFO: Sending message to 1 clients
May 01, 2024 5:15:55 PM Project.Server.ServerThread info
INFO: Thread[Shreya]: Received from client: Type[MESSAGE]
, Message[*hi~], ClientId[0], ClientName[null]
May 01, 2024 5:15:55 PM Project.Server.Room sendMessage
INFO: Sending message to 1 clients
May 01, 2024 5:16:03 PM Project.Server.ServerThread info
INFO: Thread[Bud]: Received from client: Type[MESSAGE], M
essage[hello_], ClientId[0], ClientName[null]
May 01, 2024 5:16:03 PM Project.Server.Room sendMessage
INFO: Sending message to 1 clients
May 01, 2024 5:16:50 PM Project.Server.ServerThread info
INFO: Thread[Shreya]: Received from client: Type[MESSAGE]
, Message[~hi~], ClientId[0], ClientName[null]
May 01, 2024 5:16:50 PM Project.Server.Room sendMessage
INFO: Sending message to 1 clients
[]

oad
INFO: *Shreya connected*
hi
May 01, 2024 5:13:48 PM Project.Client.Client$1 run
INFO: Waiting for inputMay 01, 2024 5:13:48 PM Project.Cl
ient.Client$2 run
INFO: Debug Info: Type[MESSAGE], Message[hi], ClientId[1]
, ClientName[null]
Shreya: hi
*hi
May 01, 2024 5:15:21 PM Project.Client.Client$1 run
INFO: Waiting for input
May 01, 2024 5:15:21 PM Project.Client.Client$2 run
INFO: Debug Info: Type[MESSAGE], Message[*hi], ClientId[1]
, ClientName[null]
Shreya: *hi
*hi*
May 01, 2024 5:15:55 PM Project.Client.Client$1 run
INFO: Waiting for input
May 01, 2024 5:15:55 PM Project.Client.Client$2 run
INFO: Debug Info: Type[MESSAGE], Message[hi], ClientId[1]
, ClientName[null]
Shreya: hi
~hi~
May 01, 2024 5:16:50 PM Project.Client.Client$1 run
INFO: Waiting for input
May 01, 2024 5:16:50 PM Project.Client.Client$2 run
INFO: Debug Info: Type[MESSAGE], Message[hi], ClientId[1]
, ClientName[null]
Shreya: hi

/connect localhost:3000
May 01, 2024 5:13:26 PM Project.Client.Client connect
INFO: Client connected
May 01, 2024 5:13:26 PM Project.Client.Client$1 run
INFO: Waiting for input
May 01, 2024 5:13:26 PM Project.Client.Client$2 run
INFO: Debug Info: Type[CLIENT_ID], Message[null], ClientI
d[2], ClientName[Bud], Client name Bud
Bud: hi
May 01, 2024 5:13:38 PM Project.Client.Client$2 run
INFO: Debug Info: Type[MESSAGE], Message[hello], ClientI
d[1], ClientName[null]
Shreya: hello
May 01, 2024 5:13:44 PM Project.Client.Client$2 run
INFO: Debug Info: Type[DISCONNECT], Message[disconnected]
, ClientId[1], ClientName[Shreya], Client name ShreyaMa
y 01, 2024 5:13:44 PM Project.Client.Client processPaylo
ad
INFO: *Shreya disconnected*
hello_
May 01, 2024 5:16:03 PM Project.Client.Client$1 run
INFO: Waiting for input
May 01, 2024 5:16:03 PM Project.Client.Client$2 run
INFO: Debug Info: Type[MESSAGE], Message[hello], ClientI
d[2], ClientName[null]
Bud: hello
[]
```

Screenshot of terminal

Checklist Items (3)

- #5 Show each one working individually and one showing a combination of all of the formats and 1 color from the terminal
- #6 Must not rely on the user typing html characters, but the output can be html characters
- #8 Each screenshot should be clearly captioned

▲ COLLAPSE ▲

Task #2 - Points: 1
Text: Explain the following

Checklist			*The checkboxes are for your own tracking
#	Points	Details	
<div><div></div><div>#1</div></div>	1	Which special characters translate to the desired effect	
<div><div></div><div>#2</div></div>	1	How the logic works that converts the message to its final format	

Response:

The * translates to red bold text, the _ translates to green italic text, and the ~ translates to blue underlined text. The formatMessage function searches for these characters, processes, and then sends the formatted message to all clients.

^ COLLAPSE ^

Task #1 - Points: 1

Text: Add the pull request link for the branch

i Details:

Note: the link should end with /pull/#

URL #1

<https://github.com/sb57-shreya/sb57-IT114-006/pull/10>

^ COLLAPSE ^

Task #2 - Points: 1

Text: Talk about any issues or learnings during this assignment

Response:

This assignment was difficult for me as I am still trying to grasp an understanding of all of the code. Payloads were very confusing for me to understand.

^ COLLAPSE ^

Task #3 - Points: 1

Text: WakaTime Screenshot

i 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

4 hrs 39 mins

Screenshot of WakaTime

End of Assignment