***Chatting Application - Report***

To run this application first we will have to run the server side of the code.

When we run the server side of the code. A GUI will be displayed like this:

It shows the Day, time, month, date, time, time zone and the year of the system.

Graphical user interface, text, application, email

Description automatically generated

Fig1

After the server is up and running, we then have to run the client side of the program. To do that run the ChatingAppServer.java class.

The GUI of the client-side chatting application looks something like this.

Notice the Stage title which is set to “Unknown User” and the TextField to enter the name. Also, notice that the text area and the other nodes on the stage are disabled.

Also, on the server stage there is a new message specifying that there is a new stablished connection.

Graphical user interface, text, application

Description automatically generated

Fig2

When we enter the name in the name text field and press the submit button the title of the stage changes to the name of the client.

Also, the other node on the stage got activated and the name entry nodes are not disabled. There is a message on the sever as well.

Graphical user interface, text, application

Description automatically generated

Fig3

In this step I have started another client. I have named this client Singh.

As you can see that Jasmeet is also notified that a new client Singh has joined the chat.

Also, there is a notification on the server. Please refer fig 4,5.

Graphical user interface, text, application

Description automatically generated

Fig4

Graphical user interface, text, application, email

Description automatically generated

Fig5

Here, as you can we that both the clients are able to communicate with each other efficiently.

Graphical user interface, text, application

Description automatically generated

Fig 6

Also, as we can see that all the messages go to the server first and then through sockets, they are delivered to another client.

Fig 7 is the best demonstration for the above.

Text, application

Description automatically generated

Fig7

We can add as many clients as we want in this chat server. However, I have added only two as mentioned in the workshop’s instruction to demonstrate properly in the report.

Thanks.