

Chat

Akansh Bharadwaj

Client.java :

- code :

```
import java.net.Socket;
import java.net.InetAddress;

public class Client {
    final static String BG_RED = "\033[41m";
    final static String BG_GRN = "\033[42m";
    final static String CLR = "\033[0m";

    public static void main (String [] args) {
        try {
            var socket = new Socket(
                InetAddress.getLocalHost(), 59059
            );
            System.out.println(BG_GRN+" Connected! "+CLR);

            var sender = new SendThread(socket);
            var reciever = new RecieveThread(socket);

            reciever.start();
            sender.start();

        } catch (Exception e) {
            System.out.println(e.getMessage());
        }
    }
}
```

RecieveThread.java :

- code :

```
import java.util.Scanner;
import java.io.PrintWriter;
import java.net.Socket;
```

```

public class RecieveThread extends Thread {
    final static String BG_RED = "\033[41m";
    final static String BG_BLU = "\033[44m";
    final static String RED = "\033[31m";
    final static String BLU = "\033[34m";
    final static String WHT = "\033[97m";
    final static String CLR = "\033[0m";

    Socket target = null;
    Scanner in = new Scanner(System.in);
    Scanner tcp_in = null;

    public RecieveThread (Socket s) {
        this.target = s;
    }

    private void makeConnection() {
        try {
            this.tcp_in = new Scanner(
                target.getInputStream()
            );
        } catch (Exception e) {
            System.out.println(e.getMessage());
        }
    }

    @Override
    public void run () {
        this.makeConnection();
        while (true) {
            String msg = tcp_in.nextLine();
            if(msg.contains("/end")) {
                System.out.println("Thank you for using TermChat");
                this.stop();
            }
            System.out.print(CLR+"\033[k\n");
            System.out.println(msg);
            System.out.print(BLU+"> "+BG_BLU+WHT);
        }
    }
}

```

SendThread.java :

- code :

```

import java.util.Scanner;
import java.io.PrintWriter;
import java.net.Socket;

public class SendThread extends Thread {
    final static String BG_RED = "\033[41m";
    final static String BG_BLU = "\033[44m";
    final static String RED = "\033[31m";
    final static String BLU = "\033[34m";
    final static String WHT = "\033[97m";
    final static String CLR = "\033[0m";

    Socket target = null;
    Scanner in = new Scanner(System.in);
    PrintWriter tcp_out = null;

    public SendThread (Socket s) {
        this.target = s;
    }

    private void makeConnection() {
        try {
            this.tcp_out = new PrintWriter(
                target.getOutputStream(),true
            );
        } catch (Exception e) {
            System.out.println(e.getMessage());
        }
    }

    public static String sendPad(String s) {
        return "\033[k\n"+RED+"("+WHT+BG_RED+" "+s+" "+CLR+RED+")"+CLR;
    }

    @Override
    public void run () {
        this.makeConnection();
        while (true) {
            System.out.print(BLU+"> "+BG_BLU+WHT);
            String str = in.nextLine();
            System.out.print(CLR);
            if (str.contains("/close")){
                tcp_out.println(sendPad(str));
                System.out.println("Thank you for using TermChat");
                this.stop();
            }
        }
    }
}

```

```

    }
    tcp_out.println(sendPad(str));
  }
}

```

Server.java :

- code :

```

import java.net.ServerSocket;

public class Server {
    final static String BG_RED = "\033[41m";
    final static String BG_GRN = "\033[42m";
    final static String CLR = "\033[0m";

    public static void main (String [] args) {
        try {
            var listener = new ServerSocket(59059);
            System.out.println(BG_RED+" Waiting... "+CLR);
            var socket = listener.accept();
            System.out.println(BG_GRN+" Connected! "+CLR);

            var sender = new SendThread(socket);
            var reciever = new RecieveThread(socket);

            sender.start();
            reciever.start();

            listener.close();
        } catch (Exception e) {
            System.out.println(e.getMessage());
        }
    }
}

```

- output:

```
Applications ▾ Fri Aug 20 11:43 AM
Terminal
term: java Server ▾ SendThread.java ▾ >... tab 2/4
1 Waiting...
2 connected!
3 hi
4 wassup?
5 nm
6 i'm just chilling
7 cool
8 cool
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
TERMINAL ▾ java Server # 7 < /31 ▾
-- TERMINAL --

Client.java ▾ term: java client ▾ tab 2/2
1 Connected!
2 hi
3 wassup?
4 nm
5 i'm just chilling
6 cool
7 cool
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
TERMINAL ▾ java Client # 6 < /31 ▾
-- TERMINAL --
```