

Java Chat Application

Name – Jaidev Ramakrishna

Description

This is a simple Team Chat application. It is written in Java, and uses Java Sockets for communication.

Demonstration Video - <https://www.youtube.com/watch?v=JSES9AIdL8s>

Complete documentation is available in the javadoc folder on the Git repository.

Build Instructions

Git Repository - <https://github.com/madscientistjaidev/ChatApp>

No special build instructions are needed. The exact commands are, of course, platform dependent, and one will not need to use these if one is using an IDE, but the Windows commands are mentioned here.

Assuming that one has navigated to the folder containing the files, one can compile and run the application with these commands.

```
javac *.java  
java <ClassName>
```

Additionally, If one wishes to create an executable jar file, so as to run the application with a simple mouse click, one can use this command.

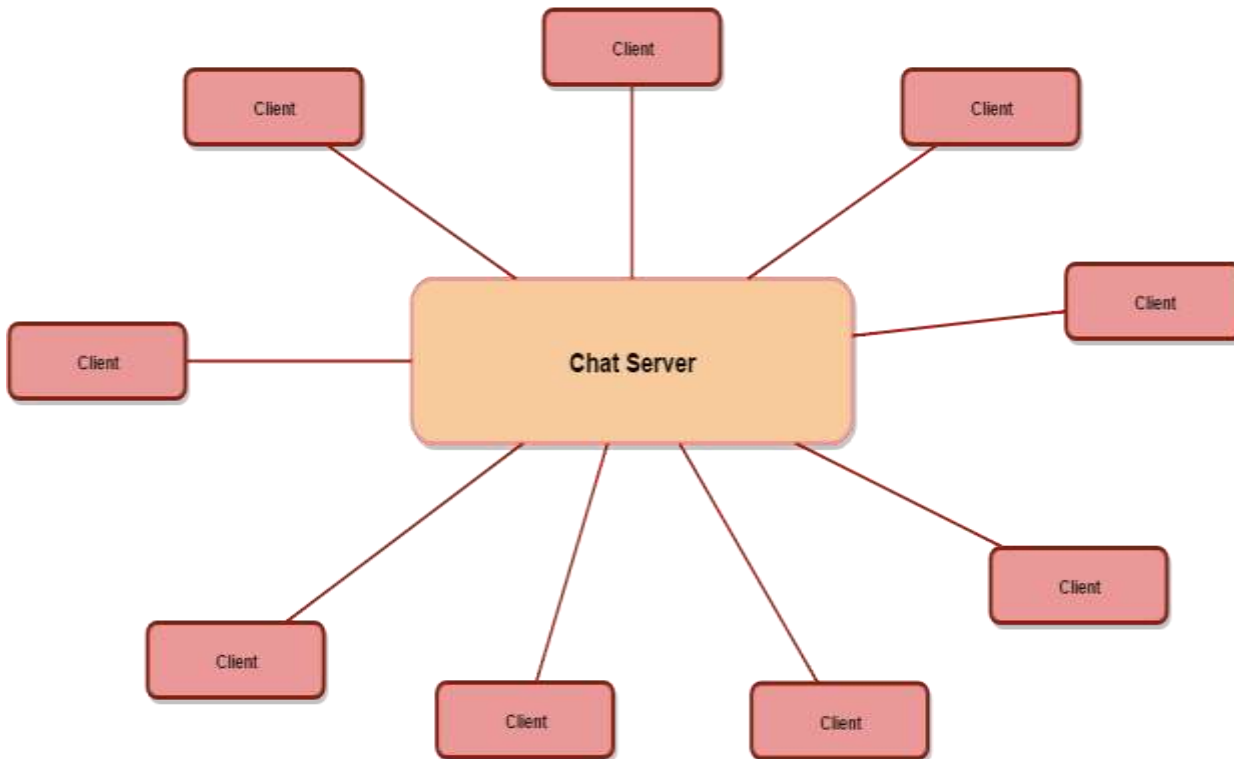
```
jar cvfe <ClassName>.jar <ClassName> *.class
```

The choice of <ClassName> depends on whether one wishes to run the client or the server. In an IDE, it is simply a matter of choosing which of these classes is the main one. One uses ServerFront.java if ones wishes to run the server, and ClientFront.java if one wishes to run the client.

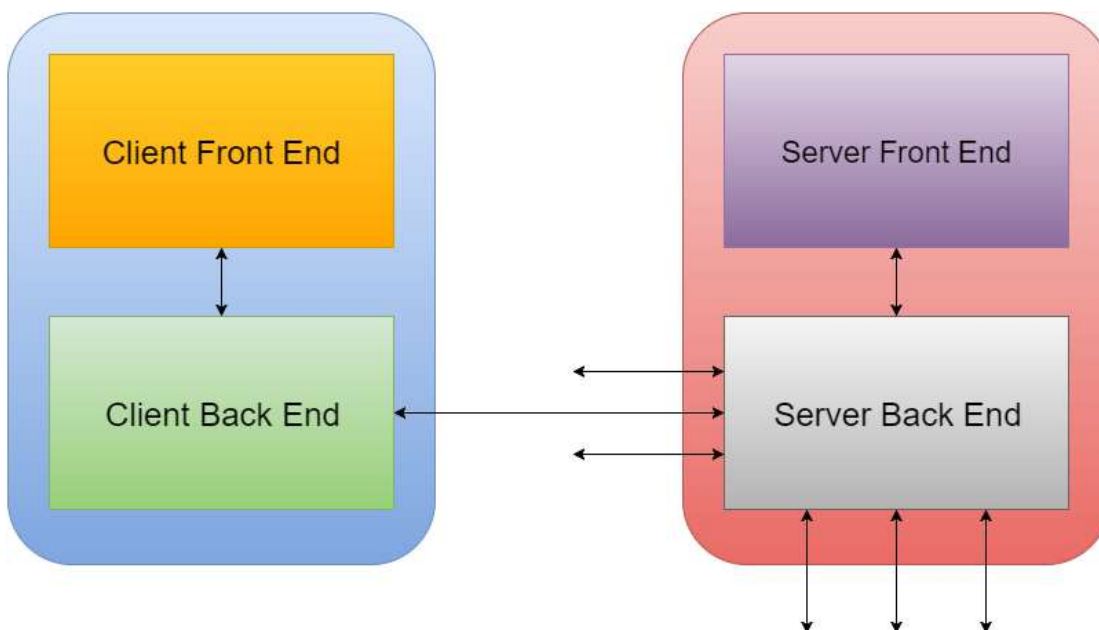
JAR files for both client and server are available in the jars folder on the Git repository.

Architecture

It is based on a **Client Server Architecture**. Many clients connect to a single server, and exchange messages through it.



The client and server are both divided into a front end and a back end. The front end GUIs provide a simple user interface, while the back ends perform the actual communications. In this sense, it is also a very simple **Layered Architecture**.



UML Diagrams

Legend-

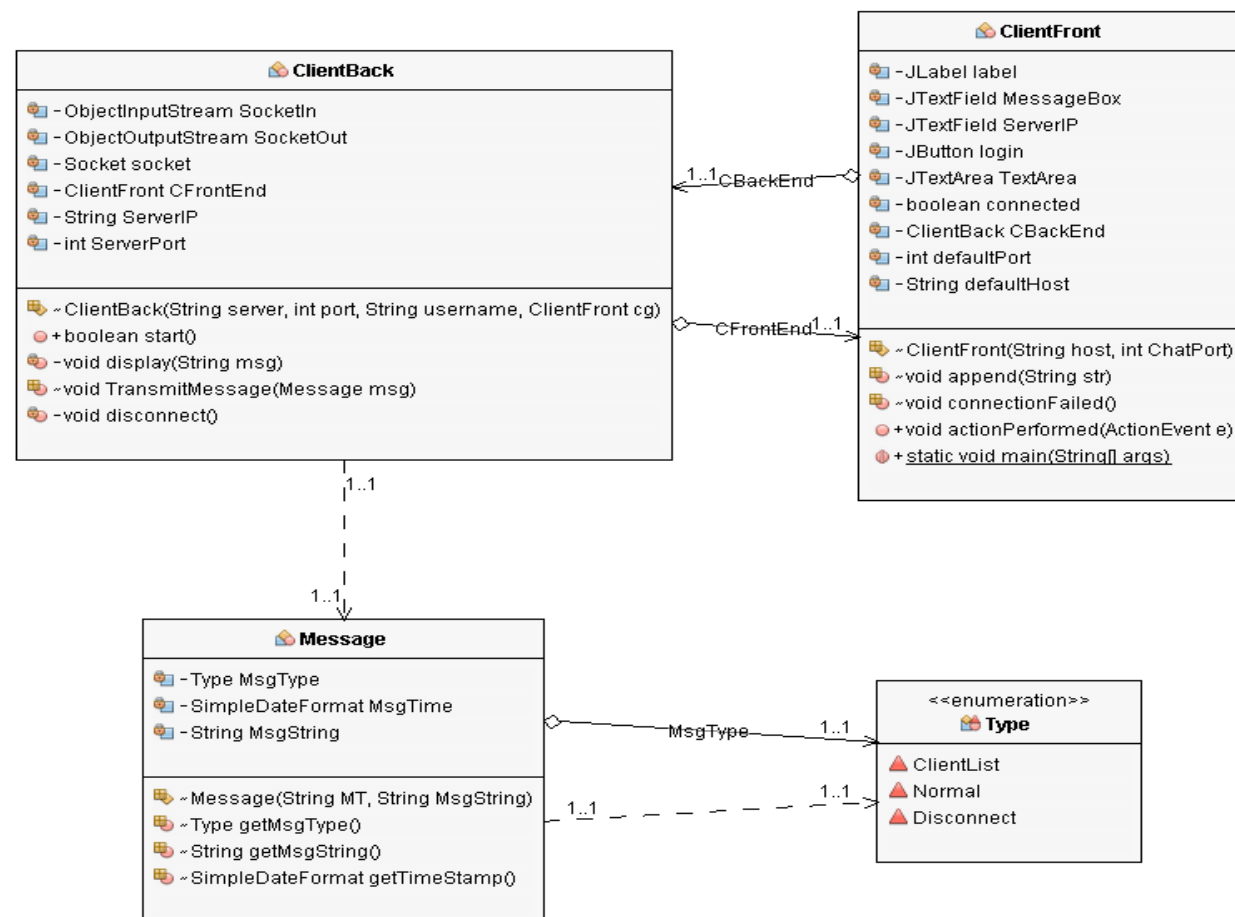
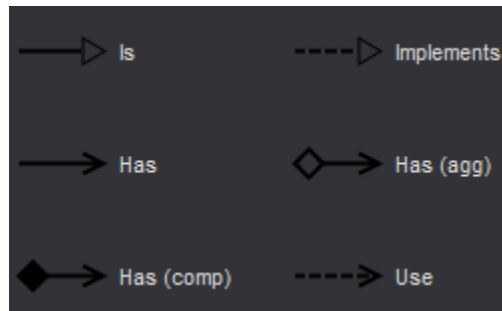


Figure 1-Client

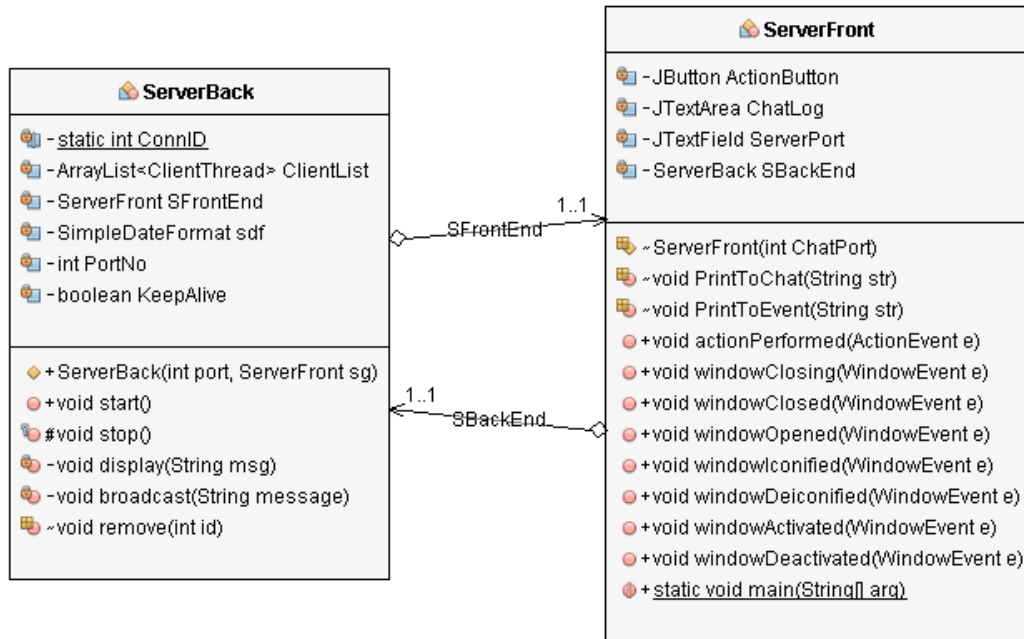


Figure 2-Server