

## Description of Advanced Features

All three advanced features of the chatroom project have been implemented in this project. The following are the instructions on how to use the built commands to get hold of the advanced features.

Notice: all the commands in this project is in the format of “/**command**”, that is, a word with a ‘/’ at the beginning. Other inputs would be regarded as messages.

### 1. Receiver Display

*Command: /printReceiver*

By typing in the command “/printReceiver”, the user can check the receivers of his or her last message. If the user hasn’t sent any message but typed in this command, an error message would be displayed.

### 2. Chat Record Storage

*No specific command*

When a new user logs in into the chatroom, all the chat records would be automatically displayed to the new user.

### 3. Search Function

*Command: /search(target)*

By typing in the command “/search(target)”, the user can search the chat record for specific keywords. ‘target’ should be replace by the keyword you would like to search for. For example, if typed in “/search(apple)”, the chatroom would search for all the chat logs that contains the character sequence ‘apple’ and display them to the user.

### 4. Get Help

*Command: /help*

By typing in the command “/help”, the user can check all the commands available in the chatroom.

### 5. Exit the Chatroom

*Command: /exit*

To leave the chatroom, the user could type in “/exit”, and the connection would be terminated.