

# A1 Report

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## Session-1:

For the 1st session, I have tested the Adduser , Listusers and basic commands of the Setuser command(Sub prompt check and number of mails in spoof file check)

I have also verified the Done command in the Sub prompt and the Quit command in the main prompt which are responsible for exiting the subprompt and the main prompt respectively

Client side terminal:(Session 1)

```
hp@sagar-reddy:~$ cd Desktop/Socket
hp@sagar-reddy:~/Desktop/Socket$ makefile
makefile: command not found
hp@sagar-reddy:~/Desktop/Socket$ make
gcc server.c -o server
server.c: In function 'LSTU':
server.c:36:2: warning: implicit declaration of function 'write' [-Wimplicit-function-declaration]
  write(sockfd, completelist, sizeof(completelist));
  ^
server.c: In function 'SEND':
server.c:294:2: warning: implicit declaration of function 'read' [-Wimplicit-function-declaration]
  read(sockfd, buff2, sizeof(buff2));
  ^
server.c: In function 'main':
server.c:528:2: warning: implicit declaration of function 'close' [-Wimplicit-function-declaration]
  close(sockfd);
  ^
gcc client.c -o client
client.c: In function 'listusers':
client.c:13:2: warning: implicit declaration of function 'write' [-Wimplicit-function-declaration]
  write(sockfd, msg, sizeof(msg));
  ^
client.c:15:5: warning: implicit declaration of function 'read' [-Wimplicit-function-declaration]
  read(sockfd, buff, sizeof(buff));
  ^
client.c: In function 'main':
client.c:266:29: warning: implicit declaration of function 'inet_addr' [-Wimplicit-function-declaration]
  servaddr.sin_addr.s_addr = inet_addr("127.0.0.1");
                           ^
client.c:281:2: warning: implicit declaration of function 'close' [-Wimplicit-function-declaration]
  close(sockfd);
  ^
hp@sagar-reddy:~/Desktop/Socket$ ./client
Socket successfully created..
connected to the server..
Main-Prompt>Adduser usera
Main-Prompt>Adduser userb
Main-Prompt>Adduser userc
Main-Prompt>Adduser usera
Userid already present
Main-Prompt>Listusers
usera userb userc
Main-Prompt>Setuser usera
Number of mails in this user's spoof file: 0
Sub-Prompt-usera>Done
Main-Prompt>Quit
hp@sagar-reddy:~/Desktop/Socket$
```

## Server side terminal :(Session 1)

```
hp@sagar-reddy:~$ cd Desktop/Sockets
hp@sagar-reddy:~/Desktop/Sockets$ ./server
Socket successfully created..
Socket successfully binded..
Server listening..
server accept the client...
hp@sagar-reddy:~/Desktop/Sockets$
```

## Session 2:

For the 2nd session I have added 3 users to the linked list and sent mails to usera from both userb and userc and then verified the output using Read and delete commands.

Client side terminal(Session-2):(part-1)

```
hp@sagar-reddy:~$ cd Desktop/sockets
hp@sagar-reddy:~/Desktop/sockets$ ./client
Socket successfully created..
connected to the server..
Main-Prompt>Adduser usera
Main-Prompt>Adduser userb
Main-Prompt>Adduser userc
Main-Prompt>Setuser userb
Number of mails in this user's spoof file: 0
Sub-Prompt-userb>Send usera
Type Subject: MAIL0
Type Message: MAIL0
Sub-Prompt-userb>Send usera
Type Subject: MAIL1
Type Message: MAIL1
Sub-Prompt-userb>Done
Main-Prompt>Setuser userc
Number of mails in this user's spoof file: 0
Sub-Prompt-userc>Send usera
Type Subject: MAIL2
Type Message: MAIL2
Sub-Prompt-userc>Send usera
Type Subject: MAIL3
Type Message: MAIL3
Sub-Prompt-userc>Done
Sub-Prompt-userc>Done
Main-Prompt>Setuser usera
Number of mails in this user's spoof file: 4
Sub-Prompt-usera>Read
From: userb
To: usera
Date: Fri Mar 5 23:50:26 IST 2021
Subject: MAIL0
Contents: MAIL0
Sub-Prompt-usera>Read
From: userb
To: usera
Date: Fri Mar 5 23:50:34 IST 2021
Subject: MAIL1
Contents: MAIL1
Sub-Prompt-usera>Read
From: userc
To: usera
Date: Fri Mar 5 23:50:54 IST 2021
Subject: MAIL2
Contents: MAIL2
Sub-Prompt-usera>Read
From: userc
To: usera
Date: Fri Mar 5 23:51:04 IST 2021
Subject: MAIL3
Contents: MAIL3
Sub-Prompt-usera>Delete
Message Deleted
Sub-Prompt-usera>Read
```

## Client side terminal(session-2)(part 2):

```
Number of mails in this user's spoof file: 0
Sub-Prompt-userc>Send usera
Type Subject: MAIL2
Type Message: MAIL2
Sub-Prompt-userc>Send usera
Type Subject: MAIL3
Type Message: MAIL3
Sub-Prompt-userc>Done
Sub-Prompt-userc>Done
Main-Prompt>Setuser usera
Number of mails in this user's spoof file: 4
Sub-Prompt-usera>Read
From: userb
To: usera
Date: Fri Mar 5 23:50:26 IST 2021
Subject: MAIL0
Contents: MAIL0
Sub-Prompt-usera>Read
From: userb
To: usera
Date: Fri Mar 5 23:50:34 IST 2021
Subject: MAIL1
Contents: MAIL1
Sub-Prompt-usera>Read
From: userc
To: usera
Date: Fri Mar 5 23:50:54 IST 2021
Subject: MAIL2
Contents: MAIL2
Sub-Prompt-usera>Read
From: userc
To: usera
Date: Fri Mar 5 23:51:04 IST 2021
Subject: MAIL3
Contents: MAIL3
Sub-Prompt-usera>Delete
Message Deleted
Sub-Prompt-usera>Read
From: userb
To: usera
Date: Fri Mar 5 23:50:34 IST 2021
Subject: MAIL1
Contents: MAIL1
Sub-Prompt-usera>Read
From: userc
To: usera
Date: Fri Mar 5 23:50:54 IST 2021
Subject: MAIL2
Contents: MAIL2
Sub-Prompt-usera>Read
From: userc
To: usera
Date: Fri Mar 5 23:51:04 IST 2021
Subject: MAIL3
Contents: MAIL3
```