

Conestoga College – SET

Assign-04 <<*The Can-We-Talk System*>>

A Report on Something <<*Can We Talk*>>

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SEF

(SENG2030-1)

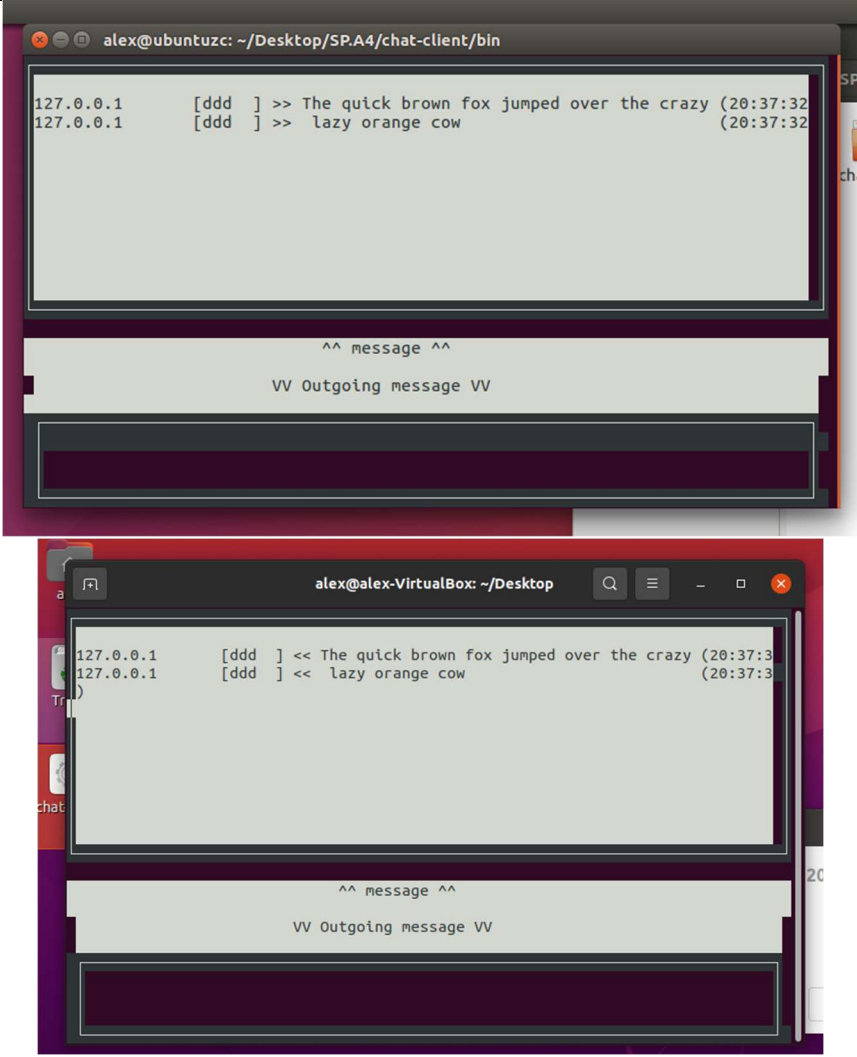
<<*Sean Clarke*>>

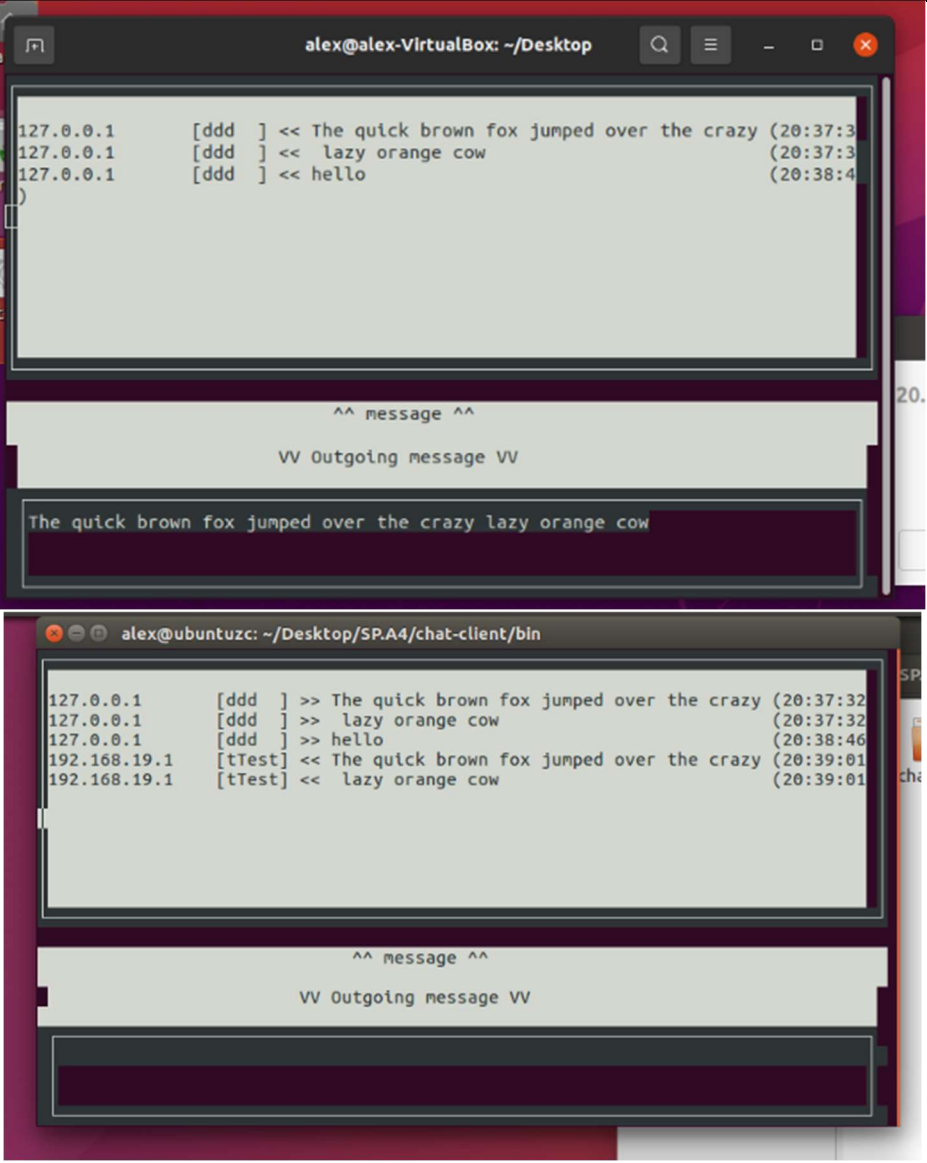
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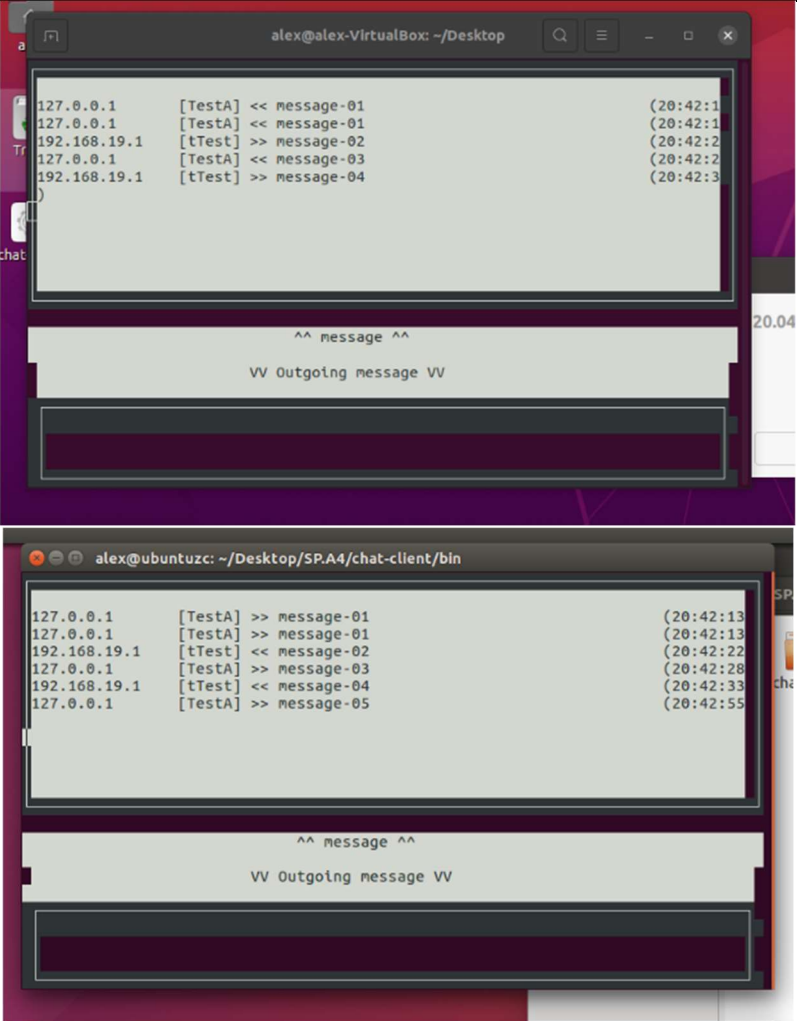
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The Can-We-Talk System

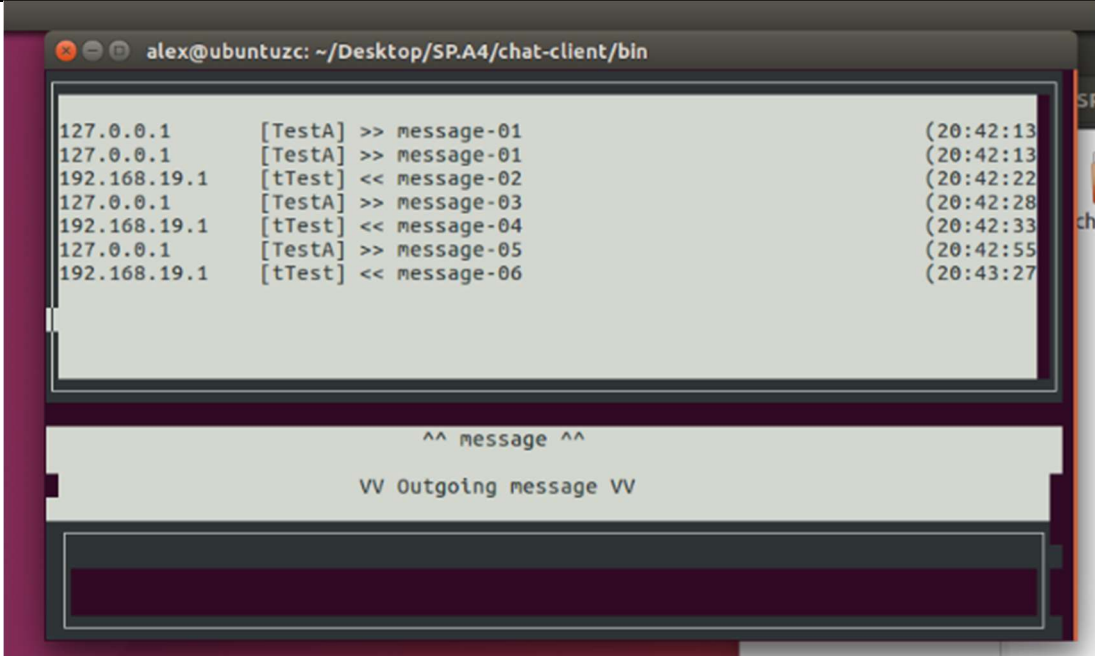
User-1	Name: ddd/TestA IP: 127.0.0.1
User-2	Name: tTest/TestA IP: 192.168.19.1

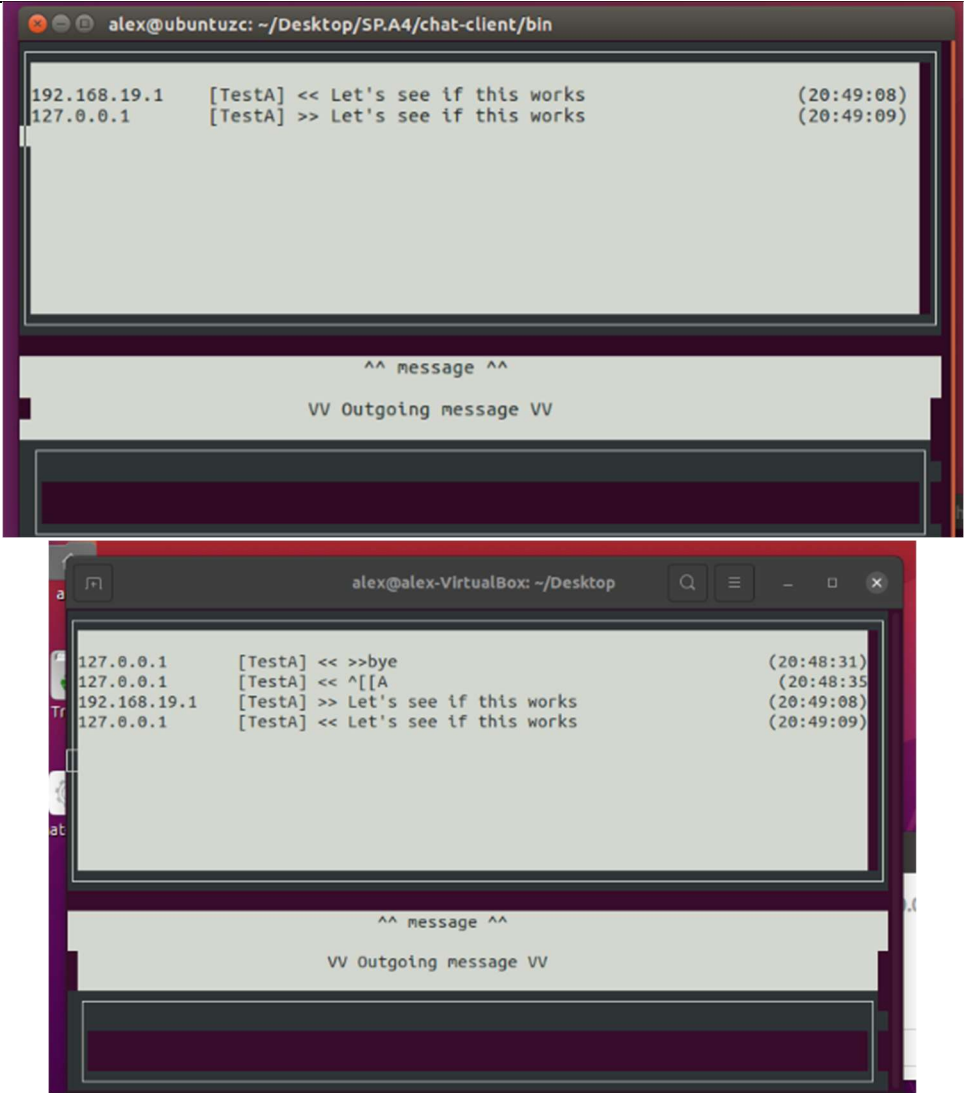
Test ID	FT-01
Test Type	Functional Tests
Test Purpose	Test if a message is a maximum of 40 characters
PASS/FAIL	PASS
Test Results	 <p>The test results are displayed as two screenshots of a chat client terminal window. The top screenshot shows the client sending a long message 'The quick brown fox jumped over the crazy lazy orange cow' and receiving a confirmation '^^ message ^^'. The bottom screenshot shows the same message being received by the server, also with a confirmation '^^ message ^^'.</p>

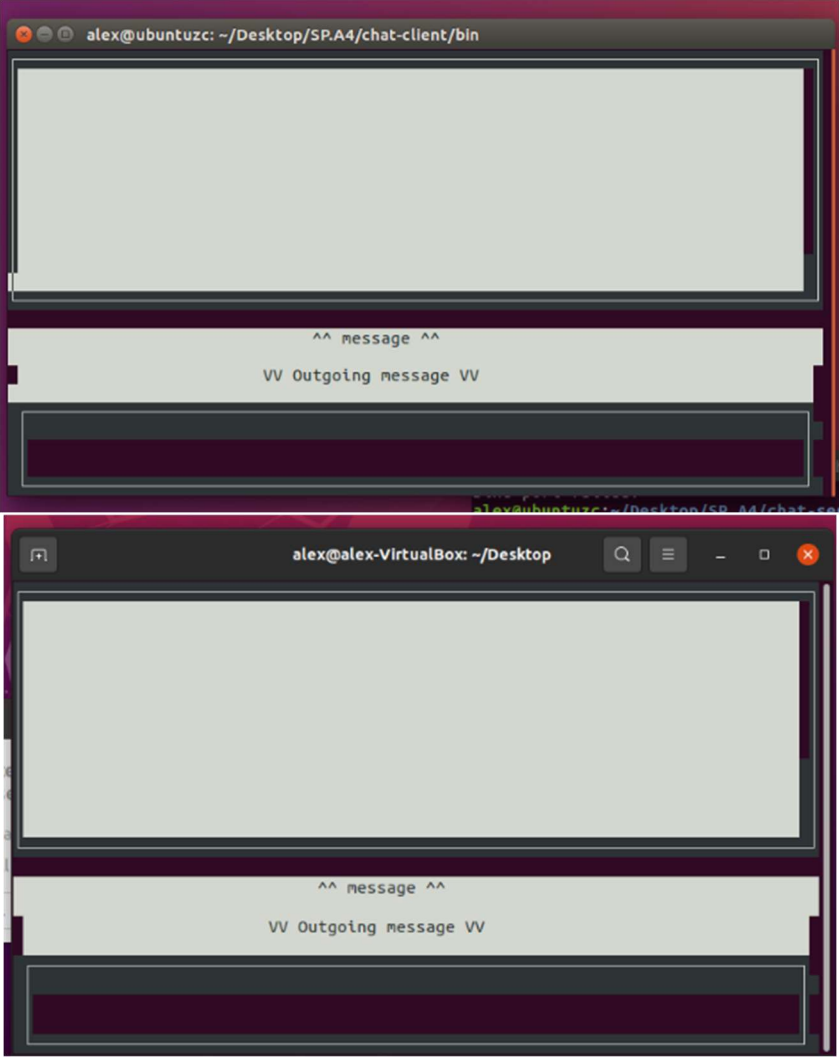
Test ID	FT-02
Test Type	Functional Tests
Test Purpose	Check if the input box will be interrupted when receiving messages.
PASS/FAIL	PASS
Test Results	 <p>The screenshot displays two windows. The top window is a terminal titled 'alex@alex-VirtualBox: ~/Desktop' showing three incoming messages from 127.0.0.1: 'The quick brown fox jumped over the crazy (20:37:32)', 'lazy orange cow (20:37:32)', and 'hello (20:38:46)'. Below the terminal, the chat client interface shows the same three messages in a list, followed by a 'VV Outgoing message VV' separator. The chat client window title is 'alex@ubuntuzc: ~/Desktop/SP.A4/chat-client/bin'.</p>

Test ID	FT-03
Test Type	Functional Tests
Test Purpose	To see if the messages can come in order.
PASS/FAIL	PASS
Test Results	 <p>The test results are displayed in two terminal windows. The top window, titled 'alex@alex-VirtualBox: ~/Desktop', shows a sequence of messages: 127.0.0.1 [TestA] << message-01 (20:42:11), 127.0.0.1 [TestA] << message-01 (20:42:11), 192.168.19.1 [tTest] >> message-02 (20:42:21), 127.0.0.1 [TestA] << message-03 (20:42:21), and 192.168.19.1 [tTest] >> message-04 (20:42:31). The bottom window, titled 'alex@ubuntuzc: ~/Desktop/SP.A4/chat-client/bin', shows a similar sequence: 127.0.0.1 [TestA] >> message-01 (20:42:13), 127.0.0.1 [TestA] >> message-01 (20:42:13), 192.168.19.1 [tTest] << message-02 (20:42:22), 127.0.0.1 [TestA] >> message-03 (20:42:28), 192.168.19.1 [tTest] << message-04 (20:42:33), and 127.0.0.1 [TestA] >> message-05 (20:42:55). Both windows also display '^^ message ^^' and 'VV Outgoing message VV'.</p>

The Can-We-Talk System

Test ID	FT-04
Test Type	Functional Tests
Test Purpose	Check formatting?
PASS/FAIL	PASS
Test Results	

Test ID	BT-01
Test Type	Boundary Tests
Test Purpose	Test whether messages can be received correctly in a very short time of arrival
PASS/FAIL	PASS
Test Results	 <p>The test results are displayed in two terminal window screenshots. The top window, titled 'alex@ubuntu: ~/Desktop/SP.A4/chat-client/bin', shows a log of a message exchange. It starts with a message from 192.168.19.1 to 127.0.0.1 at 20:49:08, followed by a response from 127.0.0.1 to 192.168.19.1 at 20:49:09. Below the log, the text '^ message ^' and 'VV Outgoing message VV' are visible. The bottom window, titled 'alex@alex-VirtualBox: ~/Desktop', shows a log of a message exchange. It starts with a message from 127.0.0.1 to 127.0.0.1 at 20:48:31, followed by a message from 127.0.0.1 to 192.168.19.1 at 20:48:35, then a message from 192.168.19.1 to 127.0.0.1 at 20:49:08, and finally a message from 127.0.0.1 to 127.0.0.1 at 20:49:09. Below the log, the text '^ message ^' and 'VV Outgoing message VV' are visible.</p>

Test ID	ET-01		
Test Type	Exception Tests		
Test Purpose	Checking exception handling		
PASS/FAIL	FAIL		
Test Results			

Test ID	ET-02
Test Type	Exception Tests
Test Purpose	Check if SERVER can exit properly.
PASS/FAIL	PASS

Test Results

```
alex@ubuntu17: ~/Desktop/SP.A4/chat-client/bin

^^ message ^^
VV Outgoing message VV

>>bye<<
alex@ubuntu17:~/Desktop/SP.A4/chat-client/bin$
```

```
alex@alex-VirtualBox: ~/Desktop

^^ message ^^
VV Outgoing message VV

>>bye<<
alex@alex-VirtualBox:~/Desktop$
```

```
alex@ubuntu17: ~
lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:21393 errors:0 dropped:0 overruns:0 frame:0
          TX packets:21393 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:3165845 (3.1 MB)  TX bytes:3165845 (3.1 MB)

alex@ubuntu17:~$ ps -eaf | grep chat
alex    65880  65848  99 19:32 pts/17    00:12:30  ./chat-server
alex    65930  65865   0 19:39 pts/18    00:00:00  grep --color=auto chat
alex@ubuntu17:~$ code
alex@ubuntu17:~$ ps -eaf | grep chat
alex    67029  65848  99 20:41 pts/17    00:07:14  ./chat-server
alex    67032  65838   0 20:41 pts/1    00:00:00  ./chat-client -userTestA -serv
er127.0.0.1
alex    67106  65865   0 20:45 pts/18    00:00:00  grep --color=auto chat
alex@ubuntu17:~$ kill -9 67029
alex@ubuntu17:~$ ps -eaf | grep chat
alex    67286  65865   0 20:52 pts/18    00:00:00  grep --color=auto chat
alex@ubuntu17:~$
```