

functionality-criteria-2

Feature	Points
Overall Program Structure	20
<ul style="list-style-type: none"> ● GUI code still works! 5 ● Correct "main" handling 5 ● Ability to configure server IP address and port number 5 ● Good modularity, with networking code in net.py, which loads correctly 5 	
Basic Protocol Functionality	30
<ul style="list-style-type: none"> ● Correct REGISTER handling 10 <i>Sends well-formatted REGISTER message at startup time</i> ● Correct ONLINE_USERS handling 10 <i>Should receive and process ONLINE_USERS messages from server</i> <i>Should update online users list appropriately</i> <i>The current user should not be displayed in the list of online users</i> ● Correct GOODBYE handling 10 <i>Send GOODBYE message at time client shuts down</i> 	
Conversation Management	50
<ul style="list-style-type: none"> ● Should be able to support multiple chats at one time 10 <i>In other words, everything below should work when there are two or more chats going</i> ● Correct INVITE handling 5 <i>Send INVITE message when new conversation is attempted</i> <i>Optionally: show a "pending" window, or use other mechanism to indicate no one else is in the conversation</i> ● Correct INVITATION handling 5 <i>Display invitation window if INVITATION is from a different user</i> <i>Show no invitation window if INVITATION is from you</i> ● Correct JOIN handling 5 <i>Generate JOIN message to server when user accepts an invitation</i> ● Correct LEAVE handling 5 <i>Generate a LEAVE message to server when user exits a chat</i> ● Correct CONVERSATIONS handling 10 <i>Receive and process CONVERSATIONS messages from server</i> <i>Correctly update all current conversations with information about current users</i> <i>GUI should correctly show current members of each conversation</i> ● Correct SEND_MESSAGE handling 10 <i>Sending text should cause a SEND_MESSAGE to be sent to the server</i> <i>Sent text should appear (once) in the transcript</i> <i>Correctly handle received SEND_MESSAGES from the server</i> <i>Any received text should appear (once) in the transcript, tagged by whom it is from</i> 	
Bonus	20
<ul style="list-style-type: none"> ● Server Enhancements (sending icons, for instance) 10 ● Exploit STATUS messages to let users change online status, display this in the GUI, propagate to other users 5 ● Exception handling above and beyond the call of duty (survive server crashes, malformed messages from server, etc.) 5 	