Appendix E: Questionnaire before Phase 1 implementation

Volunteer # \_\_\_\_\_\_001\_\_\_\_\_

1. Phase 1 pre-Implementation Questionnaire
2. From scale 1-5, how would you rank the existing applications for code tangling (1 means fully tangled and 5 means two are totally independent)?
3. From scale 1-5, how would you rank the existing applications for code scattering (1 means fully scattered in all classes and 5 means no scattering)?
4. If the original application (such as Edit-Distance Calculator and FTP) were implemented using connection-less communications, would your changes have been?
5. Considerably different
6. Somewhat different
7. A little different
8. No different
9. Now if you were asked to change the implementations (such as Edit-Distance Calculator and FTP) for Phase 1 to connection-oriented communications, would this be?
10. Major change
11. Minor change
12. No different
13. If the original application of WeatherStationSimulator were implemented using connect-oriented communications, would your changes have been?
14. Considerably different
15. Somewhat different
16. A little different
17. No different
18. Now if you were asked to change the implementation for WeatherStationSimulator in Phase 1 to connection-less communications, would this be?
19. Major change
20. Minor change
21. No different
22. If the original application (such as Edit-Distance Calculator and FTP) were implemented using JDK Sockets rather than JDK Channels, would your changes have been?
23. Considerably different
24. Somewhat different
25. A little different
26. No different
27. Now if you were asked to change the implementation for original application (such as Edit-Distance Calculator and FTP) back to JDK Channels, would this be?
28. Major change
29. Minor change
30. No different
31. Considerably different
32. If the original application of WeatherStationSimulator where implemented in such a way so that the Transmitters in the original application, send data readings to multiple Receivers, would your changes be?
33. Considerably different
34. Somewhat different
35. A little different
36. No different
37. Now if you were asked to change the implementation for WeatherStationSimulator back to the original application where Transmitters are sending the data readings to just one Receiver, would this change be?
38. Major change
39. Minor change
40. No different
41. Suppose we want to implement the “Performance Measurement” feature for the original applications. The feature measures some performance related statistics such as turn-around time for message-based communications between a sender and receiver. To implement this feature would your changes be?
42. Considerably different
43. Somewhat different
44. A little different
45. No different
46. Now suppose if we change the requirements for “Performance Measurement” feature such that a conversation is not only a request-reply sequence but also a request-reply-acknowledgement (multi-step conversation), would this change be?
47. Major change
48. Minor change
49. No different