

GROUP 4
Company Communications Systems

Test Plan Document

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1. Document Control

1.1. Revision History

| Date | Revision | Description | Author |
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| 12/3/2024 | 1.0 | Document Creation | Team |
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1.2. References

- Software Requirements Specification Document v1.9

2. Testing Overview

2.1. Classes We Are Testing

We are testing the following classes:

- ChatList
- ChatListManager
- Chat
- ConversationLog
- Server
- UserAccount

The classes above also involve the use of other classes. They have been consolidated as a result, with time constraints also in consideration.

2.2. Operations Tested

1. ChatList
 - a. Testing constructors with different parameters:
 - i. ChatList(UserAccount User)
 - ii. ChatList(UserAccount User, ObjectInputStream in, ObjectOutputStream out)
2. ChatListManager
 - a. Testing the constructor:
 - i. ChatListManager()
 - b. Testing getters:
 - i. getUserChatList(String username) : List<Integer>
 - ii. getParticipants(int chatID) : List<String>
 - c. Testing other methods:
 - i. addChatToList(String userID, int chatID) : void
 - ii. removeChatFromList(String userID, int chatID) : void
3. Chat
 - a. Testing constructor:
 - i. Chat(UserAccount user, int chatID, boolean isTest)
 1. Calls upon the constructor that does not communicate with the server. Same object, but will not cause unnecessary exceptions trying to contact the server when it really isn't necessary in testing the methods in the test plan
 - b. Testing getters:
 - i. getParticipants() : List<UserAccount>
 - ii. getConversationHistory() : ConversationHistory
4. ConversationLog
 - a. Testing displaying the message List
 - i. displayList() : List<Integer>

- b. Testing the creation of ConversationLog and adding a ConversationHistory to it
 - i. addConversationHistory(ConversationHistory history) : void
 - ii. getHistory(int chatID) : ConversationHistory
- 5. Server
 - a. Many functions tested in the Server:
 - i. Verifying credentials
 - ii. Adding a user to the Server database
 - iii. Removing a user from the Server database
 - iv. Getting the log from the Server
 - v. Getting a UserAccount from the server database given a User ID
 - vi. Getting a UserAccount form the server database given a username
 - vii. Getting a chatlist from the server
 - viii. Adding and removing a chat from the server database
 - ix. Getting a participant of a chat from the server database
- 6. UserAccount
 - a. Adding users
 - b. Getting the name of a user
 - c. Getting the password of a user
 - d. Getting the ID of a user

3. Instructions

All testing files are in the GitHub and the Source Code zip file, under the package 'testing'. Running the JUnit Test case run configuration will run all of the tests. For example,

