

UserList	Messages
List<User> users	String[] times TupleSpace allMessages int count
addUser(User user) getUser(String userName) getAllList() getActiveList()	addMessage(String time, User user, String message) getMessages()

Coordinator	User
Display display Messages messages DateTimeFormatter dateTimeFormatter UserList backUserList User currentUser String listDisplayed	boolean active boolean action String name
resetListViewActive() resetListViewAll() updateCurrentUserDisplay() updateMessages()	isActionTaken() setAction(boolean action) String getName() getStatus() setStatus(boolean action)

Display	
AnchorPane root MenuBar menuBar Menu menu MenuItem addUser Button activeButton Button allButton Button sendButton TextField textField ScrollPane messageHolder ListView<String> userList Pane userHolder Text currentUserName	
getUserHolder() getActiveButton() getCurrentUserName() getSendButton() getTextField() getUserList()	setMessage(Messages mgage) getAddUser() getAllButton() createGUI(Stage primaryStage)

Tuple
Object[] pattern int size
getPattern() getFirst() isEqual(Tuple t) getSize()

TupleSpace
add(Tuple tuple) remove(Object... pattern) read(Object... pattern)

LinkedListTupleSpace
List<Tuple> tupleList

HashMapTupleSpace
HashMap<Integer,List<Tuple>> map

