User user, String message) userName) getMessages() getAllList() getActiveList() Coordinator Display display Messages messages DateTimeFormater dateTimeFormatter UserList backUserList User currentUser String listDisplayed resetListViewActive() resetListViewAll() updateCurrentUserDisplay() updateMessages()

UserList

List<User> users

getUser(String

addUser(User user)

Messages

int count

String[] times

TupleSpace allMessages

addMessage(String time,

User

boolean active

boolean action

isActionTaken()

setAction(boolean

String getName()

setStatus(boolean

String name

action)

action)

getStatus()

Display AnchorPane root MenuBar menuBar Menu menu Menultem 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)

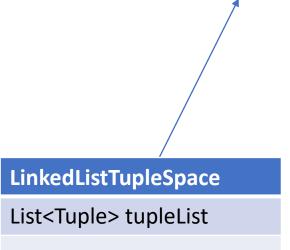
Tuple

Object[] pattern int size

getPattern()
getFirst()
isEqual(Tuple t)
getSize()

TupleSpace

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



HashMapTupleSpace

HashMap<Integer,List<Tuple>> map