Message

f 🔒	senderUsername	String
f 🔒	receiverUsername	List<String>
f 🔒	order	Integer
f 🔒	read	Boolean
m 🔒	Message(String, List<String>, Integer)	
m	getOrder()	Integer
m	setOrder(Integer)	void
m	getSenderUsername()	String
m	getReceiverUsername()	List<String>
m	getContent()	String
m	getSubject()	String
m	toStringReceived()	String
m	markedRead()	void
m	markedUnread()	void
m	getRead()	boolean

WordMessage

f 🔒	subject	String
f 🔒	content	String
m 🔒	WordMessage(String, List<String>, String, String, Integer)	
m	getContent()	String
m	getSubject()	String
m	toString()	String
m	toStringReceived()	String

MessagingManager

f 🔒	receiverMap	Map<String, List<Message>>
f 🔒	senderMap	Map<String, List<Message>>
f 🔒	totalNumber	Integer
m	MessagingManager()	
m	getSentMessages(String)	List<String>
m 🔒	getSentMessagesHelper(String)	List<Message>
m 🔒	getReceivedMessagesHelper(String)	List<Message>
m 🔒	getReceivedToString(List<Message>)	List<String>
m 🔒	getSentToString(List<Message>)	List<String>
m	getMessagesFromSpecificAccount(String, String)	List<Message>
m	getMessagesToSpecificAccount(String, String)	List<Message>
m	getSentMessageToSpecificAccount(String, String)	List<String>
m	sortMessages(List<Message>)	List<Message>
m	getReceivedMessagesFromSpecificAccount(String, String)	List<String>
m	getReceivedMessages(String)	List<String>
m	sendWordMessage(String, List<String>, String, String)	void
m	markAsUnread(Integer, String)	boolean
m	deleteReceivedMessage(Integer, String)	boolean
m	deleteSentMessage(Integer, String)	boolean
m	getGivenOrderReceivedMessage(Integer, String)	String
m	getGivenOrderSentMessage(Integer, String)	String
m	adminDeleteMessage(Integer)	boolean
m	getUnreadMessage(String)	List<String>

MessagePresenter

m	printAllSentMessage(List<String>)	void
m	printAllReceivedMessage(List<String>)	void
m	printGivenOrderReceivedMessage(String, Integer)	void
m	printGivenOrderSentMessage(String, Integer)	void
m	printUnreadMessage(List<String>)	void
m	printSendMessage(boolean)	void
m	askContent()	void
m	askSubject()	void
m	askOrder()	void
m	noUnreadMessage()	void
m	invalidReceivedID(Integer)	void
m	invalidSentID(Integer)	void
m	markAsUnread()	void
m	invalidID(Integer)	void
m	deletedSuccessfully()	void
m	noReceivers()	void

MessageSystem

f 🔒	presenter	MessagePresenter
f 🔒	sc	UserInput
m	MessageSystem(MessagingManager)	
m	getMassageSent(String)	void
m	getMassageReceive(String)	void
m	sendMessageToList(String, List<String>)	void
m	getReceivedMessageWithGivenOrder(String)	void
m	getSentMessageWithGivenOrder(String)	void
m	deleteReceivedMessage(String)	void
m	deleteSentMessage(String)	void
m	markAsUnread(String)	void
m	adminDeleteMessage()	void
m	viewUnreadMessage(String)	void
p	messages	MessagingManager