



WEBSITE
URL: String Name: String
getForum() getAllForums()

FORUM
Name: String
filterByAuthor(User) filterByThread(Thread) filterByDate(Date) sortByAuthor(User) sortByDate(Date) addThread(Message) addMember(Member) removerMember(Member) getMembers() getThreads()

THREAD
Name: String
initiateThread(message) getMessage() getAllMessages() addMessage(Message)

MESSAGE
Message: String
postMessage(Thread) getMessage()

USER
Name: String
createForum() joinForum(Forum)

MEMBER
postMessage(Forum) leaveForum(Forum)

MODERATOR
denyMessage(Message, Forum) passMessage(Message, Forum) resign(Forum)

OWNER
inviteUser(User, Forum) inviteModerator(Member, Forum) transferOwnership(Membe r, Forum) deleteForum(forum)

<u>Data Structure</u>	<u>Class</u>
ArrayList<Forum> forumsOwned;	Owner
ArrayList<Message> messages;	Member
ArrayList<Forum> forums;	Member
ArrayList<Forum> forumsModerated;	Moderator
Owner owner;	Forum
Moderator mod;	Forum
ArrayList<Member> members;	Forum
Member author;	Message
ArrayList<Forum> forums;	Website
ArrayList<Thread> threads;	Forum
ArrayList<Message> messages;	Thread