Society Leader App - Specification of Microservices

Component	SocietyLeaderGUI
Description	This is the graphical front end that is used by the society leader to access all of the features of the app. Features functions like creating an event and updating society profiles.
Stereotype	GUI
Required Interfaces	Events, Profile, Notification, Membership, Termination
Provided Interfaces	None

Component	CreateEventManager
Description	Handles society leaders requests for creating and updating event information before being forwarded to the cloud service.
Stereotype	Service
Required Interfaces	CreateEvent
Provided Interfaces	CreateEvent

Component	SocietyProfileManager
Description	Processes users requests for changing things such as society name, description or leader details.
Stereotype	Service
Required Interfaces	UpdateProfile
Provided Interfaces	UpdateProfile

Component	CommunicationsManager
Description	Allows the society leader to send notifications to members. This could be announcements for events, ie cancellation notices.
Stereotype	Service
Required Interfaces	SendNotification
Provided Interfaces	SendNotification

Component	MembershipManager
Description	Handles accepting new students into the society and removing existing ones.
Stereotype	Service
Required Interfaces	AddMembership
Provided Interfaces	AddMembership

Component	TerminationManager
Description	Allows the society leader to request a termination of the society to the student union.
Stereotype	Service
Required Interfaces	RequestTermination
Provided Interfaces	RequestTermination

Society leader app - Specification of Interfaces

Name	SendNotification	
Provider	CommunicationsManager	
Operation	Signature	sendNotification(eventID: int, message: String): Boolean
	Function	Sends a notification to all the participants of the event specified by the eventID. If the event is invalid or has no participants it will return false.
Operation	Signature	broadcast(message: String): Boolean
	Function	Sends a message to entire society

Name	CreateEvent	
Provider	CreateEventManager	
Operation	Signature	createEvent(eventInfo: String, leaderID: int): Boolean
	Function	Creates a new event with the inputted information. Will validate the leaderID and store the event in EventDatabase. Returns true if successful, or false if validation fails.
Operation	Signature	updateEvent(eventID: int, eventInfo: String): Boolean
	Function	Modifies an existing event's data

Name	UpdateProfile	
Provider	SocietyProfileManager	
Operation	Signature	updateProfile(profileData: String, leaderID: int): Boolean
	Function	Updates the society's profile with the provided data and checks validity. Writes the changes to EventDatabase and returns the update result.

Operation	Signature	getProfile(leaderID: int): String
	Function	Will return the current stored society profile

Name	AddMembership	
Provider	MembershipManager	
Operation	Signature	addMembership(studentID: int, societyID: int): Boolean
	Function	Registers the chosen student as a new member of the society and writes the membership data to EventDatabase. Returns success or failure
Operation	Signature	removeMembership(studentID: int, societyID: int): Boolean
	Function	Removes a student from the society

Name	RequestTermination	
Provider	TerminationManager	
Operation	Signature	requestTermination(reason: String, leaderID: int): Boolean

	Function	Submits a society termination request to the student union. Will return whether the request is accepted for review
Operation	Signature	checkTerminationStatus(leaderID: int): String
	Function	Returns whether the request has been reviewed