Anforderungsanalyse für einen Instant Messenger

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1.

Entity:	Account
Relations:	---
Attributes:	UserName
	Password
	OnlineState
Constraints:	UserName: Length >= 6 and <=20
	Password: Length >= 6 and <= 20, at least one number
	OnlineState: Only „Online", „Offline", „busy", „do not disturb" possible

2.

Entity:	Profile
Relations:	A „Profile" is an extension of an „Account"
Attributes:	UserName
	EMail
	Telephone
	ImageLink
	NickName
	Visible
Constraints:	EMail: contains an „@" in it
	Telephone: only numbers divided by a „/"
	PictureLink: contains a hyperlink to an image
	Nickname: Length <= 20
	Visible: only „true" or „false" possible

3.

Entity:	Contacts
Relations:	Accounts, which requested the contact request
Attributes:	UserName1
	UserName2
Constraints:	---

4.

Entity:	ContactRequest
Relations:	„Accounts" can link with each other through a request
Attributes:	UserName1

UserName2
Status

Constraints: <u>Status</u>: possible is „open", „accepted", „declined"

5.

Entity: Group
Relations: Contacts can be organized in a group
Attributes: GroupName
FounderName
Description
ImageLink
Constraints: <u>GroupName</u>: Length <= 20
<u>FounderName</u>: should be a valid and existing user name
<u>Description</u>: ---
<u>ImageLink</u>: a hyperlink to an image

6.

Entity: GroupMember
Relations: The sembers of a group are invited contacts of the group founder
Attributes: GroupName
Member
Constraints: <u>GroupName</u>: an existing group name
<u>Member</u>: a valid and existing user name

7.

Entity: SingleMessage
Relations: A Message sent by one contact to a different contact
Attributes: Sender
Receiver
Message
TimeStamp
Constraints: <u>Sender</u>: User name
<u>Receiver</u>: User name
<u>Message</u>: ---
<u>TimeStamp</u>: Only a date an time allowed

8.

Entity: GroupMessage
Relations: A Message sent by one contact to a group
Attributes: Sender
ReceiverGroup
Message
TimeStamp
Constraints: <u>Sender</u>: User name
<u>ReceiverGroup</u>: Group name

<u>Message</u>: ---
<u>TimeStamp</u>: Only a date an time allowed