## Anforderungsanalyse für einen Instant Messenger

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1.

**Entitity:** Account

**Relations:** ---

**Attributes:** UserName

Password OnlineState

Constraints: UserName: Length  $\geq$  6 and  $\leq$  20

Password: Length >= 6 and <= 20, at least one number

OnlineState: Only "Online", "Offline", "busy", "do not disturb"

possible

2.

**Entitity:** Profile

**Relations:** A "Profile" is an extension of an "Account"

**Attributes:** UserName

EMail Telephone ImageLink NickName Visible

Constraints: EMail: contains an "@" in it

<u>Telephone</u>: only numbers divided by a "/" <u>PictureLink</u>: contains a hyperlink to an image

Nickname: Length <= 20

Visible: only "true" or "false" possible

**3.** 

**Entitity:** Contacts

**Relations:** Accounts, which requested the contact request

**Attributes:** UserName1

UserName2

Constraints: ---

4.

**Entitity:** ContactRequest

**Relations:** "Accounts" can link with each other through a request

**Attributes:** UserName1

UserName2

Status

Constraints: Status: possible is "open", "accepted", "declined"

**5.** 

**Entitity:** Group

**Relations:** Contacts can be organized in a group

**Attributes:** GroupName

FounderName Description ImageLink

Constraints: <u>GroupName</u>: Length <= 20

FounderName: should be a valid and existing user name

Description: ---

ImageLink: a hyperlink to an image

**6.** 

**Entitity:** 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

Member: a valid and existing user name

7.

**Entitity:** SingleMessage

**Relations:** A Message sent by one contact to a different contact

**Attributes:** Sender

Receiver Message TimeStamp

Read

**Constraints:** Sender: User name

Receiver: User name

Message: ---

<u>TimeStamp</u>: Only a date an time allowed Read: Only "true" and "false" possible

8.

**Entitity:** GroupMessage

**Relations:** A Message sent by one contact to a group

**Attributes:** Sender

ReceiverGroup

Message TimeStamp **Constraints:** 

Sender: User name
ReceiverGroup: Group name
Message: ---

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