

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 are allowed
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: Status: possible is „open“, „accepted“, „declined“

5.

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

6.

Entity: GroupMember
Relations: The members of a group are invited contacts of the group founder
Attributes: GroupName
Member
Constraints: GroupName: an existing group name
Member: 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
Read
Constraints: Sender: User name
Receiver: User name
Message: ---
TimeStamp: Only a date and time allowed
Read: Only „true“ and „false“ possible

8.

Entity: GroupMessage
Relations: A Message sent by one contact to a group
Attributes: Sender
ReceiverGroup
Message
TimeStamp

Constraints:

Sender: User name

ReceiverGroup: Group name

Message: ---

TimeStamp: Only a date and time allowed