Requirements specification for an Instant Messenger

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Common description:
A web application should be developed. It should give the possibility to different users to communicate with each other. The requirements of this application are listed below.

Requirements:
1. Registration of users (Creating an account)
    a. New users have to register to use the service
    b. An account consist of an unique user name and a password
2. Profile
    a. A can fill in a profile
    b. The profile contains information like the e-mail address, telephone number and profile image
    c. The user determines if any user or only the added contacts are able to see the profile
    d. The user has the possibility to choose a nick name, which do not have to be unique
3. Contacts
    a. A user can add contacts to its contact list
    b. A contact can be added by entering the unique user name or a nick name. In the second case a selection dialogue will ensure that the correct contact will be chosen if there are more than one user with the same nick name
    c. It will be sent a contact request, which have to be confirmed by the other contact
    d. After confirming the request the contacts will be added to the contact lists of both users
    e. Thereafter both users can see the online status of each other
4. Groups
    a. Groups can be founded
    b. The founder of the group can invite other contacts to this group
    c. A group can have a name, a description and an image.
    d. A group can be dissolved too
5. Communication
    a. A user can write messages to one contact of his contact list
    b. A user can write messages in a group
    c. A user can use emoticons in his messages

d. Links should be recognized and a small preview to this link should be shown
e. Files like pictures or something else can only be sent as links to a webpage
f. On the arrival of a new message an acoustic signal should sound and a popup window should appear
g. If a user is offline and he gets a message it will be saved till the next login
h. Messages will be saved on the server for a time of 30 days. In this time the user can browse the history. There is only the exception that a message will not be deleted if it is unread