Chat Application

Software Requirements Specification

Version 0.4

25th April, 2016

Krupali Dhanvijay,
Veera B Murari,
Venkatesh Ch,
M Bikshapathi,
P Sriharsha

Prepared for
Global Edge Software Ltd.

End User Requirements:

Functional Specifications

- EDGE messenger is a communication based application for desktops that uses IP address to send text messages, along with other graphical stickers and emoticons.
- User has privilege to
  - Add contacts
  - Search contacts
  - Remove contacts
  - Block/Unblock contacts
  - Modify contacts
  - Create chat groups
  - Schedule messages

- User can see his/her recent chats.
- Every user will have their own login credentials to open his chat application.
- End users cannot have multiple logins and they cannot login to their chat from other systems.

End user interface

- When the end user clicks on application, the user will be prompted to enter his/her login credentials. Captcha verification will be provided as a additional security feature.(i.e. whether human being is trying to login or robot is trying to login)
- A Virtual keyboard will be provide for the user to login.
- New users have to register by clicking on the "*New user*" option below login button.
- New users have to provide the following information to register :
  - Name
  - Password
  - Re – Enter Password
  - Upload Profile Picture
  - IP address
  - Employee ID
  - Date of Birth
  - Set a security question and answer

- If the user forgets his/her password, there will be "*forget password*" option provided beside the login button.

- The "*forget password*" option will ask, the following details :
  - User name
  - IP address or Employee ID
  - Date of Birth
  - Answer the security question
  - Verification of Captcha.

- After verifying the end user's credentials, the first window he/she will see is his contact list.
- The contact list will have an option to "*Add a new contact*" first, followed by "Search contacts", followed by "*Create a Group*".

- If the user wish to create a new contact, he/she should click on "*Add a new contact*" option. A new window will be opened, asking the details of the contact to be added.

- To add new contact the details need to be given by the user will be :
  - Name of the contact
  - IP address of the contact
  - Employee ID of the contact
  - DOB.

- Users have privilege to create a group and user will be a group admin of their groups.

- User can search contacts by clicking on "Search contact" option.

- The user will be provided with setting option to his/her top right corner, where he can :
  - Change Profile Picture
  - Change IP address
  - Change Password
  - Delete account

- If the user selects any added contact, he/she will see the following details :
  - Profile picture of the contact
  - Name of the contact
  - IP address of the contact
  - Employee ID of the contact
  - Date of Birth of the contact
  - Open chat
  - Edit contact details
    - Save changes
    - Cancel
  - Delete contact
  - Block / Unblock the contact
  - Close

- Status of all contacts will be shown at one click on a button named "Status", that will be provided at the top of the contact list.

- If the user selects the open chat option, he/she will see the following fields :

  - User will see the name of the contact followed by his/her active status on the network in a single locked field.
  - User will have an options field to the right top corner, he/she will find the following options there,
    - Clear the chat history

- Delete a message
- Forward message
- Block / Unblock
- Schedule message
- Close chat
- Leave group

- There will be a field to type the message, followed by send button to send the message.
- Users can send emoji's and stickers, with their texts.
- In the chat window user have option to schedule a message to a contact or a group at a schedule time.
- When user clicks on the schedule messages option he/she will need to enter his message for the contact, schedule the time and date to send the message and confirm it.
- The message will be sent to the intended recipient on the scheduled date and time.
- Sent messages will be aligned to right and received messages will be aligned to the left.
- Greeting messages will be sent to the users on their birthday's.
- User have a option to forward a message to a contact or to all contacts by selecting the messages and contacts.
- An event reminder for a particular contact on a particular date and time will be provided.
- File sharing option will be given to the users.
- User will not receive any messages from the blocked contact in a group and individually.