**Software Requirements Specifications (SRS)**

**for Kappa Pride SMS Messenger Application**

**Definitions, Acronyms, and Abbreviations**

|  |  |
| --- | --- |
| Draft | An unfinished message that has yet to be sent to a conversation. |
| Conversation | A list of shared messages sent between a group of people. |
| Forward | To send a copy of the message to a receiver. |
| Contact | A saved phone number paired with a name. |
| Receiver | A person who receives or accepts a message. |
| Sender | A person who sends or transmits a message. |
| Message | A string of characters that can be sent and received by a user. |
| SMS | Short Message Service |
| msg | Message |

**Functional Requirements**

Messages

1. The SMS Messenger shall allow users to view messages.
   1. The messenger shall display the date and time when the message was sent.
   2. The messenger shall display the contact name of the other user in the conversation.
   3. The messenger shall display the contents of the message.
   4. The messenger shall inform the user when a message is received.
2. The SMS Messenger shall allow users to edit messages.
   1. The messenger shall allow users to edit the contents of the message.
   2. The messenger shall save an unfinished message edit as a draft.
   3. The messenger shall allow users to load saved drafts for further editing.
3. The SMS Messenger shall allow users to delete messages.
   1. The messenger shall allow users to delete the previous sent and received messages.
   2. The messenger shall present a warning dialog to confirm that the message will be deleted.
   3. The messenger shall allow users to delete entire conversations.
   4. The messenger shall present a warning dialog to confirm that the conversation will be deleted.
4. The SMS Messenger shall send messages.
   1. The messenger shall prompt users for the recipient’s phone number.
   2. The messenger may confirm that the message was sent.
   3. The messenger shall inform users if there is an error in sending the message.
5. The SMS Messenger shall receive messages.
   1. The messenger shall receive messages sent to the host phone’s number.
   2. The messenger shall save received messages for further viewing.
6. The SMS Messenger shall allow users to reply to messages.
   1. The messenger shall allow users to reply to received messages within a conversation.
   2. The messenger may inform the original sender that a user is typing a message in reply.
7. The SMS Messenger shall allow users to forward messages.
   1. The messenger shall allow users to forward received messages to other users.
   2. The messenger shall allow users to specify one or more phone numbers that should receive the forwarded message.
8. The SMS Messenger shall allow users to search messages through text quarry.
   1. The messenger shall search all messages for the text quarry when the user enters a keystroke.
   2. The messenger shall display all messages that have the searched text quarry.
   3. The messenger shall highlight any text matches that are found in the search.
9. The SMS Messenger shall allow users to manage a blacklist of phone numbers.
   1. The messenger shall allow users to add phone numbers to the blacklist.
   2. The messenger shall allow users to remove phone numbers from the blacklist.
   3. The messenger shall allow users to change phone numbers in the blacklist.
   4. The messenger shall refuse to receive messages sent by blacklisted phone numbers.

Message Organization

1. The SMS Messenger shall categorize the messages by phone number or contact name.
   1. The messenger shall display the conversations in reverse chronological order, starting from the top of the screen and ending on the bottom of the screen.
   2. The messenger shall display the date that the user received the most recent message for every conversation.
   3. The messenger shall display the messages in reverse chronological order within each conversation, starting from the bottom of the screen and ending on the top of the screen.

Other

1. The SMS Messenger shall allow users to zoom by clicking two buttons or by manipulating the screen with their fingers.
   1. The messenger shall display a zoom-in button that enlarges the text by 10%.
   2. The messenger shall display a zoom-out button that shrinks the text by 10%.
   3. The messenger shall prevent users from enlarging the text by over 50%.
   4. The messenger shall prevent users from shrinking the text by over 50%.
2. The SMS Messenger shall allow the user to scroll through the conversation list or the message list within a conversation.
   1. The messenger shall allow users to scroll when the elements within either list cannot be fully displayed on the screen.

**Use-Case Diagram**

