**Stories:**

Nick:

Login:

As a user, I want to log in so that I can access the Secure Messaging App (SMA) system.

1. I receive a user ID and corresponding password from the systems administrator.

2. I enter my username, which corresponds to the user ID, and password into two fields.

3. When I press the submit button, I am brought to the main activity of the SMA.

Send Message:

As a user, I want to send an encrypted message to another user so that the other user receives that message securely.

1. I navigate to the compose message activity of the SMA.

2. I type the username of the user I wish to send a message to into the receiver field.

3. I select the time I want the message to last on the receiver's app. If I do not choose a time, I wish for the message to delete itself after five minutes.

4. I choose which form of security I want to use, public/private key encryption or pattern encryption.

a. If I choose public/private key encryption, I send my key to the user I want to send the message to by pressing the public/private key encryption button.

b. If I choose the pattern encryption, I enter the pattern I wish to use to encrypt the message.

c. If I entered the pattern, I press the pattern encrypt button.

5. I press the send button to send the message with the appropriate time-to-delete and security options.

Receive Message:

As a user, I want to read messages I have received from other SMA users.

1. I navigate to the read message activity of the SMA.

2. I click on the message snippet I wish to read.

3. I decrypt the message.

a. If the message is encrypted with a key, I press the decrypt button to decrypt the message.

b. If the message is encrypted with a pattern, I use the pattern that the sending user has given me to decrypt the message.

4. I read the decrypted message.

5. If I am finished with the message and do not want to wait for it to be deleted, I press the delete button to delete it.

Generate user ID and password:

As a systems administrator, I want to send users their user IDs and passwords so that they can access the SMA system.

1. I generate a random, unique user ID.

2. I generate a random, unique password that corresponds with the user ID.

3. I email the user the ID and password.

Change Profile:

Potentially change the encryption options to take place here.

Add Contact:

As a user, I want to store usernames and user IDs so that I can easily send messages to other users without entering all the necessary information.

1. I navigate to the contacts list page.

2. I press the add contact button.

3. I enter the username of the contact into the username field.

4. I enter the user ID of the contact into the user ID field.

5. I press the save button.

a. If I have correctly entered the information, I press the OK button to confirm that I wish to add this contact information to the contact list.

b. If I have not correctly entered the information, I press the cancel button to confirm that I do not wish to add this contact information to the contact list.

Zach:

1. A person wants to become a user of SMA(secure messenger app) so he gets in contact with an admin who gives him a account with a random password and the person's chosen id. The user logged in with the random password and changed it to one only he knew."

2. A user wants to securely message his friend, so they exchange public keys in plaintext.

3. A user doesn’t want those around him to be seeing his conversation, so he configures the app to delete messages 10 seconds after he has read them.

4. A user some conversations to be encrypted but doesn’t care about others, so he turns encryption mode on and off depending on who he is talking to.

5. A user sends cat pictures to all his friends in the cat grouptext.

Jake:

As a network Administrator i want to store user names and passwords. To verify the user when they login

As a user i want to store my contacts along with their key to make using the application easy

As a user i would like to erase messages I’ve sent to a contact

As a user i would like to send encrypted messages to my contacts

As a user i would like to create/delete contacts in a contact list. What happens to the contacts key when the contact is deleted from contacts list though.

Elijah Arnold:

1. As a user I want to change my password. I open SMA and log in. I go to the *Settings* menu, scroll to the *User Settings* section, and select *Change Password*. A dialog box appears asking prompting me to enter my new password. I type the new password in the text box that appears in this dialog box. I retype the new password in a second text box labeled *Re-type Password*, and hit enter. A dialog appears notifying me that my password has been updated successfully.
2. As a user I want to set a default timeout for sent messages. I open SMA and log in. I go to the *Settings Menu*, navigate to the *Message Settings* section, check the option labeled *Set Default Timeout*, and enter “5m” in the textbox next to this setting. I hit a button labeled *Apply*.
3. As a user I want to send a message to a client where the message is set to delete after 3 minutes. I open SMA and log in. I select a button labeled *New Conversation*. A new conversation is opened and I am prompted to enter a recipient in a field labeled *Send To*. I enter the client’s ID and select the message field. I type out the message and open the timeout option and enter 3m in the textbox that appears. I tap a button in labeled *Apply* and and tap the send button next to the message field.
4. As a user I want to check a newly received message. I receive a notification saying a new message has appeared. I tap on the notification and it brings me to the SMA log in screen. I log in successfully and am redirected to the conversation from a client. The new message is at the bottom of the conversation. A small timer next to the message tells me it will expire in 3 minutes and 42 seconds. The timer is counting down.
5. As a user I want to delete a conversation I’ve just had with a coworker. I open SMA and log in. I long press the user whose conversation I wish to delete and an icon shaped like a trash can appears next to it. I select this icon and all messages with this user are deleted.

Brad:

User has sensitive information in message and forgets to delete, message times out and deletes itself

Message recipient opened but forgot to read, sends request to sender for a ressend

User forgot the UID of someone, but can send a message from contact list, which was saved as

The recipient’s nickname of choice

User would like to block messages from another user.

**Use Cases:**

Sender -

* login
* password reset
* add contact
* remove contact
* edit contact
* create new conversation
* view conversation
* add user to conversation
* leave conversation
* delete conversation
* create message
* write message <<extends create message>>
* set message timeout <<extends create message>>
* set pattern encryption <<extends create message>>
* send message
* change default timeout
* accept contact

Recipient -

* login
* Request password reset
* add contact
* remove contact
* edit contact
* create new conversation
* view conversation
* add user to conversation
* leave conversation
* delete conversation
* view message
* delete message
* accept contact

Administrator -

* Create user profile
* Delete user profile
* Password reset