

Iteration 1 Features

Keychat

I. Feature: Project set up

Backend:

1. Create SQL script to create database for project and tables for:
 - a. users
 - b. conversations
 - c. messages
 - d. blockedUsers
2. Set up Amazon web service

II. Feature: Registration

Back-end

1. Create script to determine if new or returning user
2. Create script to register new users
3. Redirect back to landing page if new user after registering

III. Feature: Login

Back-end:

1. Create script to authenticate returning users
2. Redirect back to landing page if login fails
3. Redirect to home page if successful login
4. Session start in successful login

IV. Conversations

Back-end:

1. Create script to create new conversations
2. Create scripts to load users list of conversations

V. Messages

Backend:

1. Store currently active conversations in database, so messages can be relayed to the correct client
2. Create script to receive encrypted message from sending client, and relay encrypted message to receiving client.
3. create script to send encrypted message to another user

Frontend:

1. Invite user to a chat session
2. Chat messages are encrypted in the sending client's browser, passed through the server, and decrypted in the receiving clients browser. In iteration 1, this will be a simple Vigenère cipher with no authentication.