ZotChat

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Table of Contents

Glossary

A

Account Name/Username: A username that is linked to your account that you will use to sign in with

Account Password: The unique password that is linked to your account name which is also required to login with

Active Status: When the user is currently connected to the server and is online

B

Blocking Friend: Preventing the blocked user from sending messages to you

C

Central host: Communicates between hosts on the network

Chat history: Shows the log of previous chat sessions

Client: The person who is obtaining information from the server

Contacts: The accounts of other people that you added and can communicate with

D

Deleting Friend: Removing someone from your contact list

F

Friend Request: A request from someone who wants to be apart of your contact list

G

GUI: to visualize the code using graphics

I

Instant Messaging: a network communication system which allow people send or receive messaging in real time

Idle Status: users will be shown in idle status when they do not chat in five minutes.

IP address: Internet Protocol address is a string of numbers for identifies each device in the network.

L

Log-in: Use your account name and password to enter in your account

O

Offline status: When the user is currently not connected to the server

P

Port Number: a 16-bit unsigned numbers from 0 to 65535

R

Recipient: The person who is receiving the message

S

Sender: The person who is sending the message

Server: provides the service to clients

Sign up: Create an account name and password to be saved in the system

Sockets: a network that connecting two clients

U

Unread message: A message that has been sent to you but have not seen yet

1. Instant Messaging

1.1 Usage Scenario
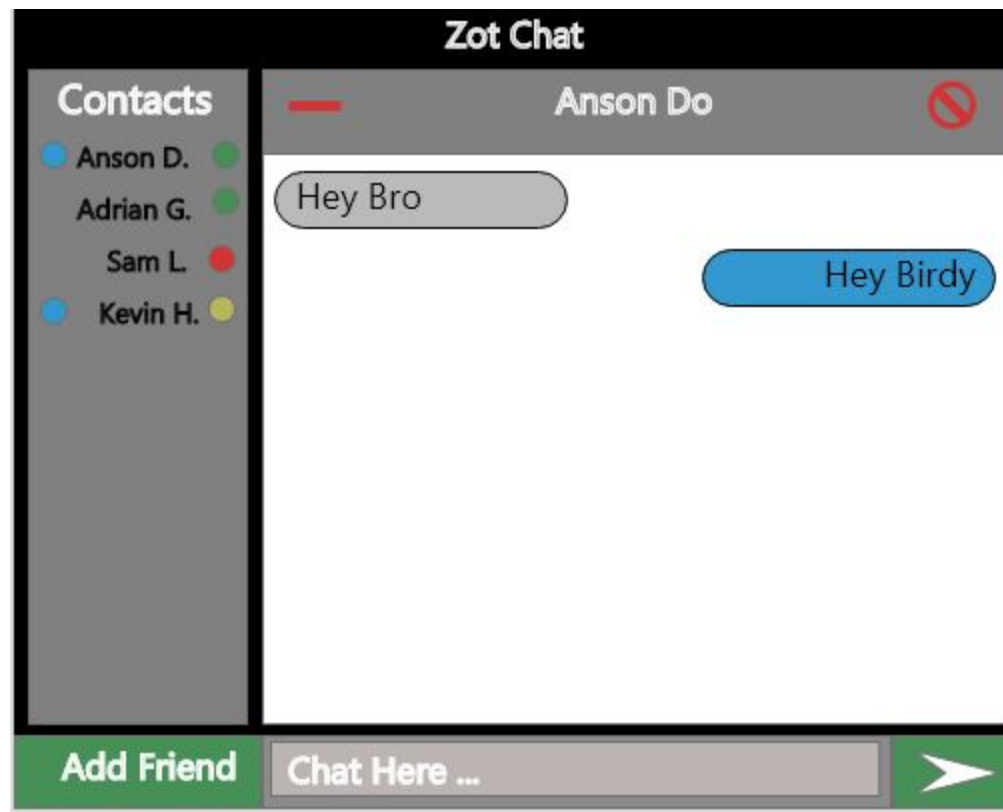
1.2 Goal
The goal of this program should be to enable simple social features found in any modern day chat features, such as a friends list, adding friends, deleting friends, and of course being able to chat to your friends through a simple gui. Within this chat gui as well, the goal is to be able to play a simple chess game through text, and be able to play this chess game with another person on the user's friends list through the same chat window.

1.3 Features:

- Messaging with History
- Graphics User Interface (GUI)
- Adding and Removing Friends
- Blocking Friends
- Accepting and Rejecting Friend Requests
- User Status
- Unread messages
- Chess Game Integration

2. Installation

2.1   System Requirements

System: Linux
Disk Space: 128MB free
Ram: 512 MB or more
CPU: 1.2GHz or higher
Internet: essential for the chat application

2.2   Setup and configuration

To install the chat app, copy (using ~cp) the chat_v 1.0.tar.gz and chat_V1.0_src.tar.gz file from the host to your own Linx.
To type make chat and make test command which can run the chat client

2.3   Uninstalling

To uninstall the chat app, type:
rm chat_v 1.0.tar.gz   chat_V1.0_src.tar.gz
At the file directory

3. Chat Program Functions and Features

3.1 Detailed Description of Client and Server Communication

Selecting a Contact to Message

Step 1: Click a contact that you wish to communicate with.
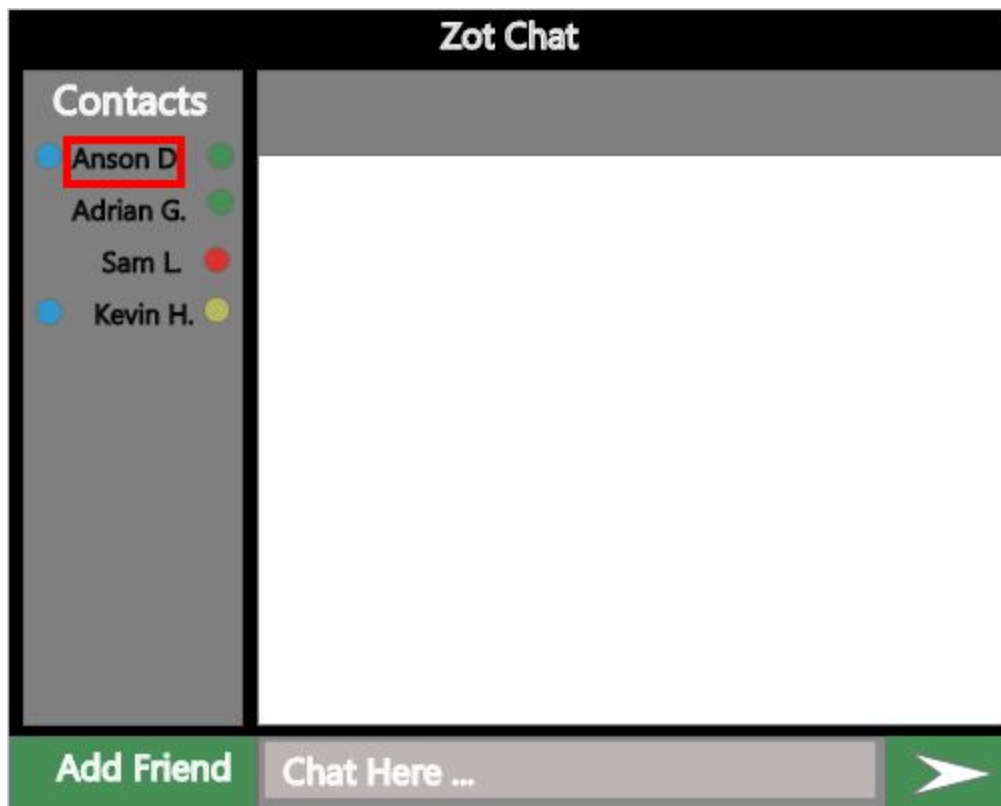
Step 2: You will enter the message room with the contact you selected.
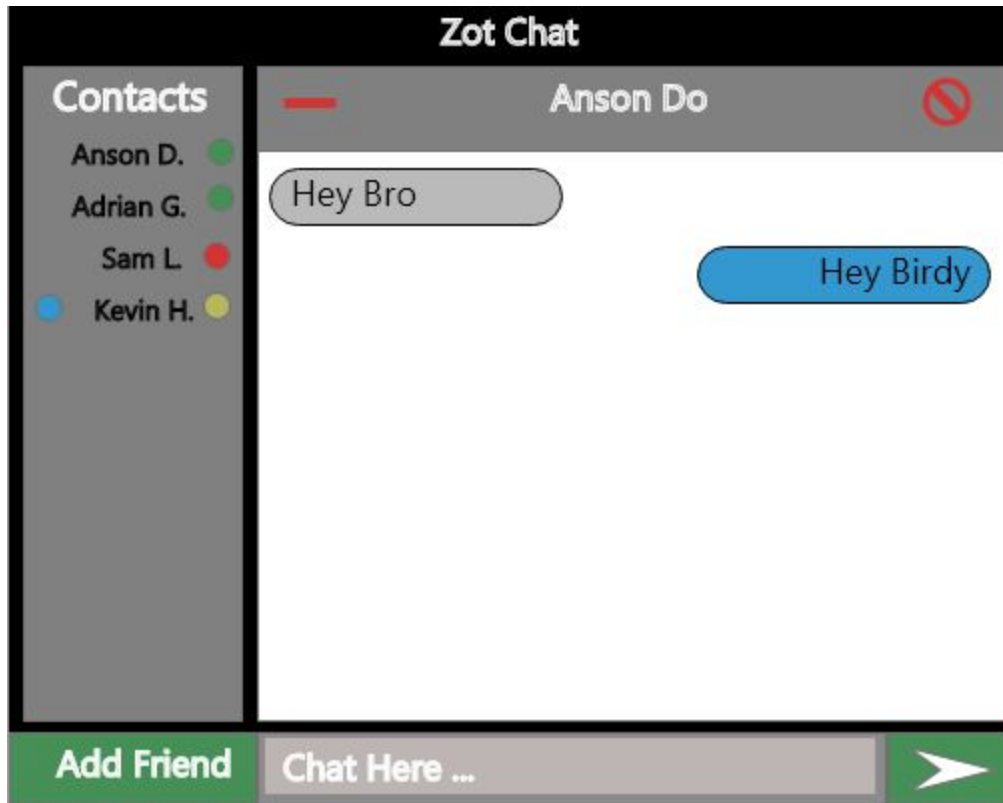
Going Back to Main Contact Screen

Step 1: To go back to the Main contact screen, click "Contacts".
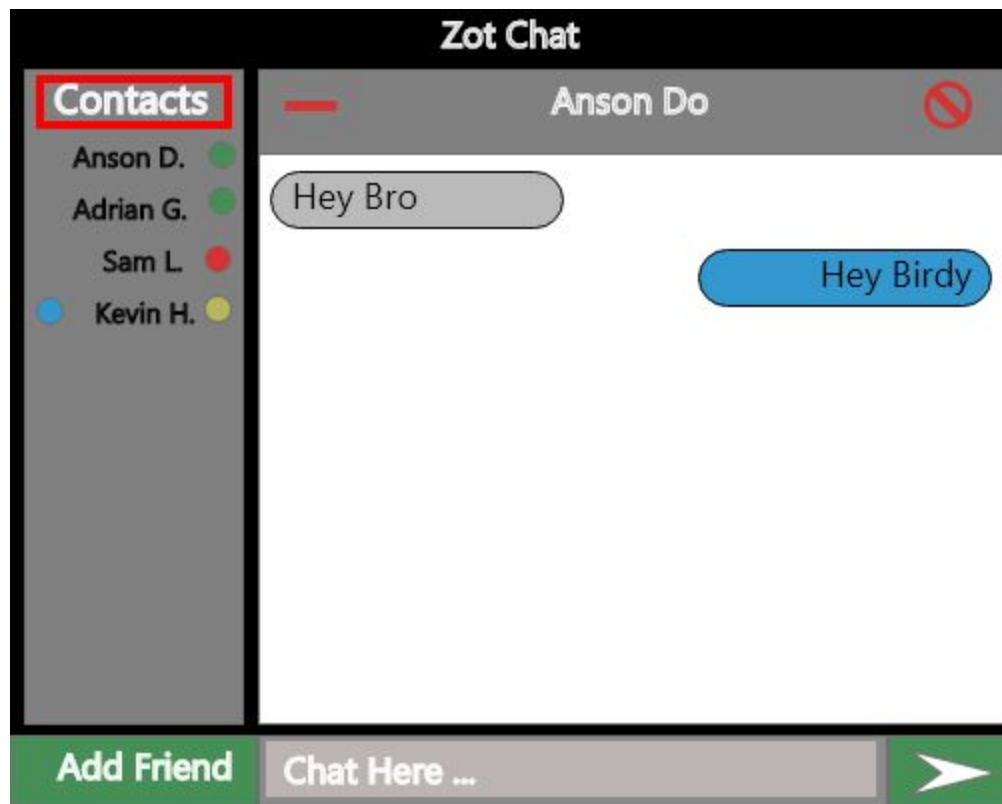
Step 2: You will be sent to the Main Contact screen
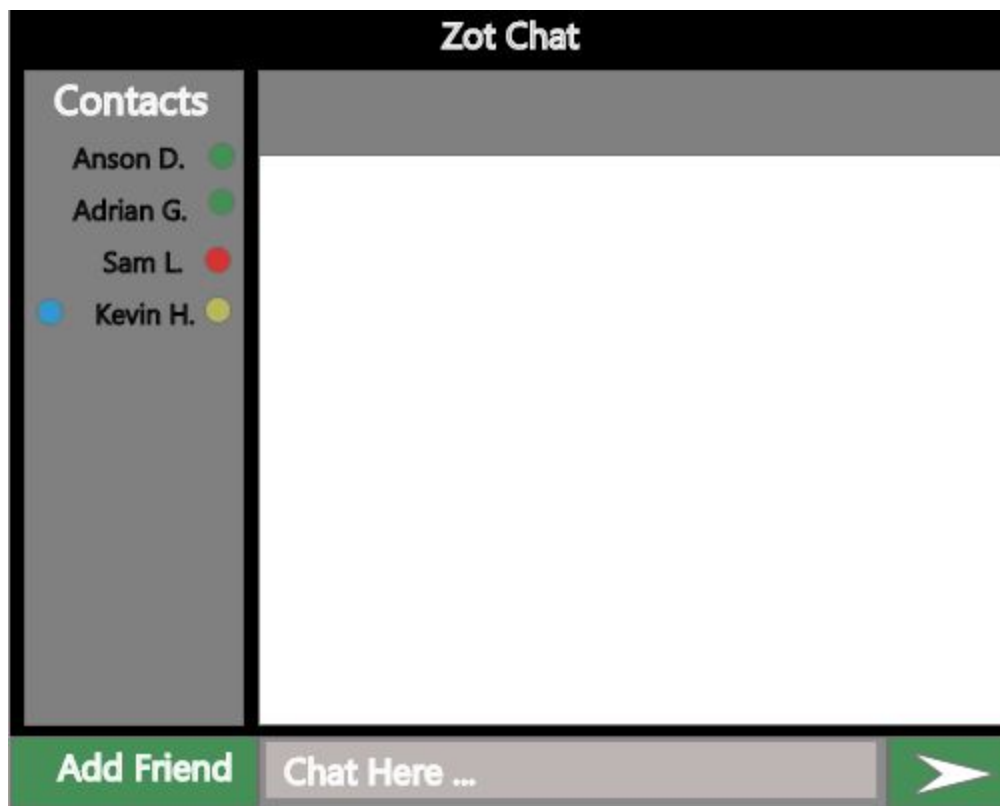
Sending a Message

Step 1: Click the "Chat Here" box and enter a message
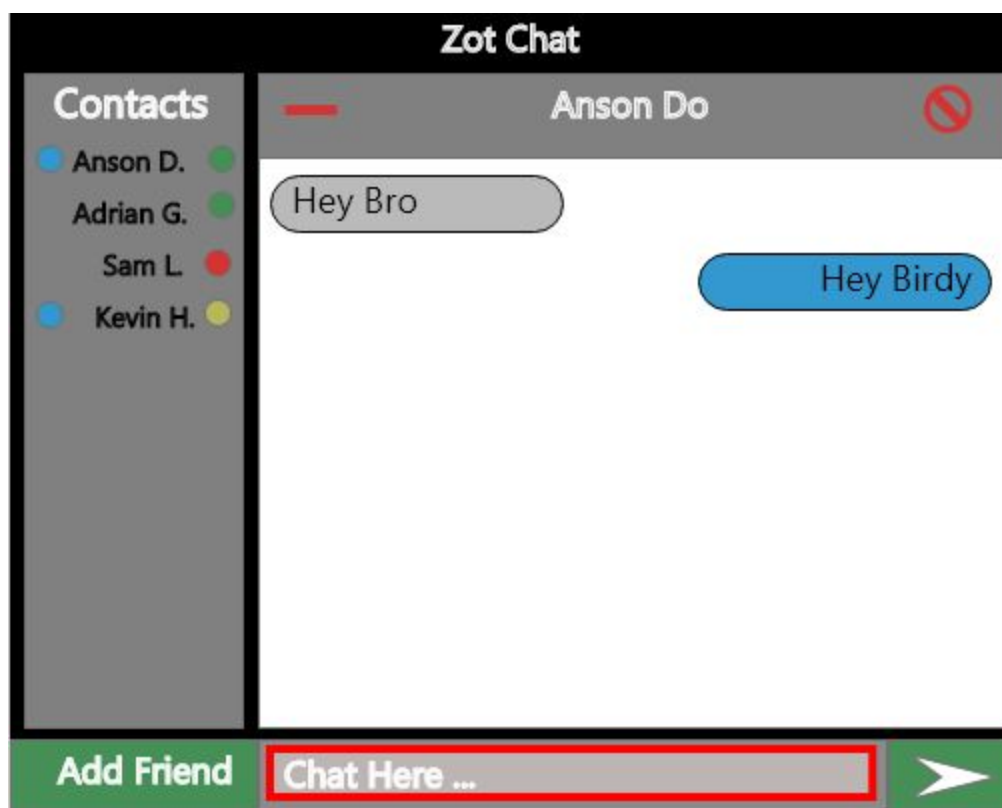
Step 2: Click the "Green Arrow" to send your message.
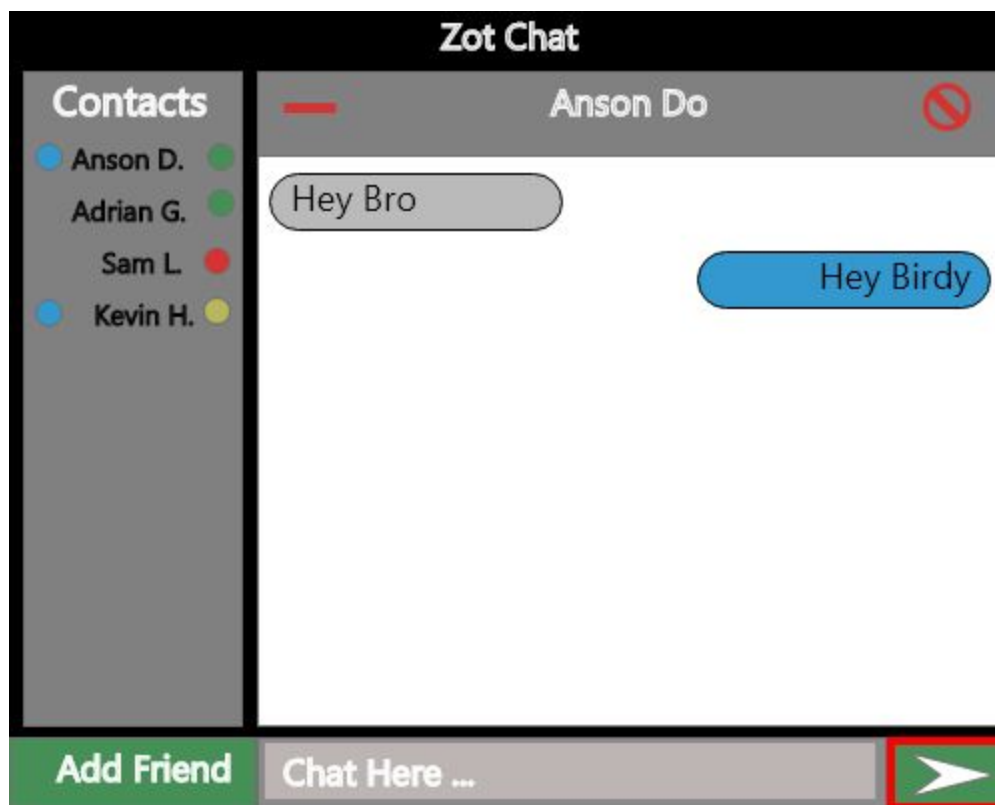
Indicator for Unread Messages

The indicator for unread messages is the blue dot next to the name.
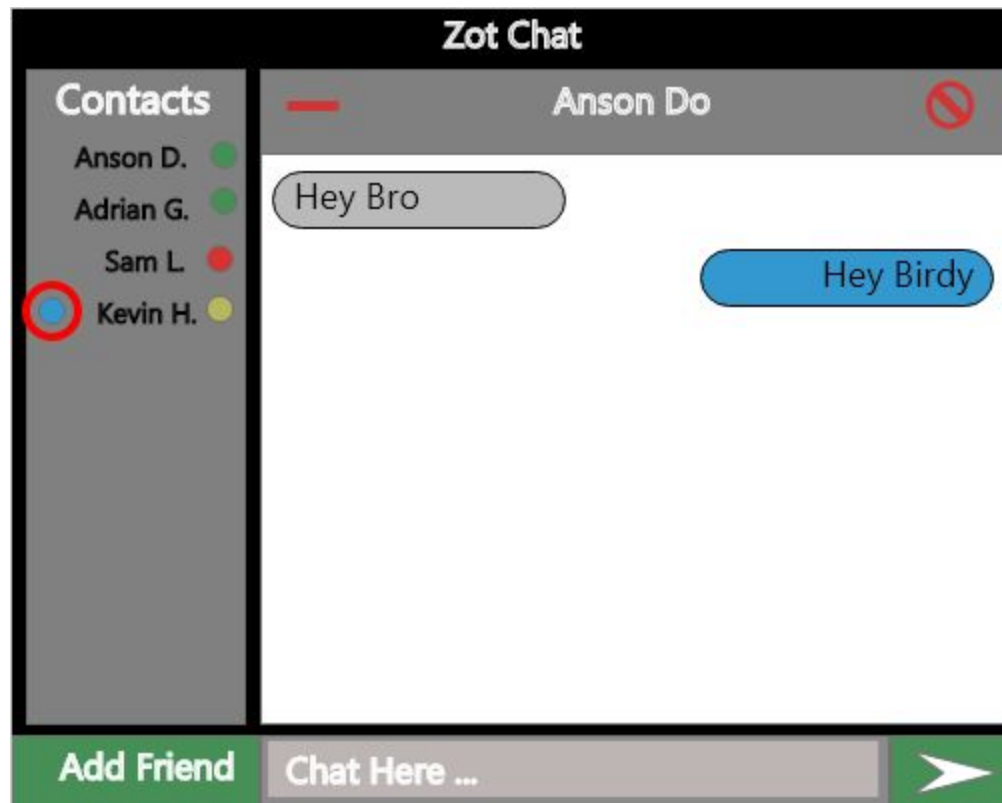
Indicator for Contact Status

Green represents that the user is online.
Red represents that the user is not online.
Yellow represents that the user is idle.
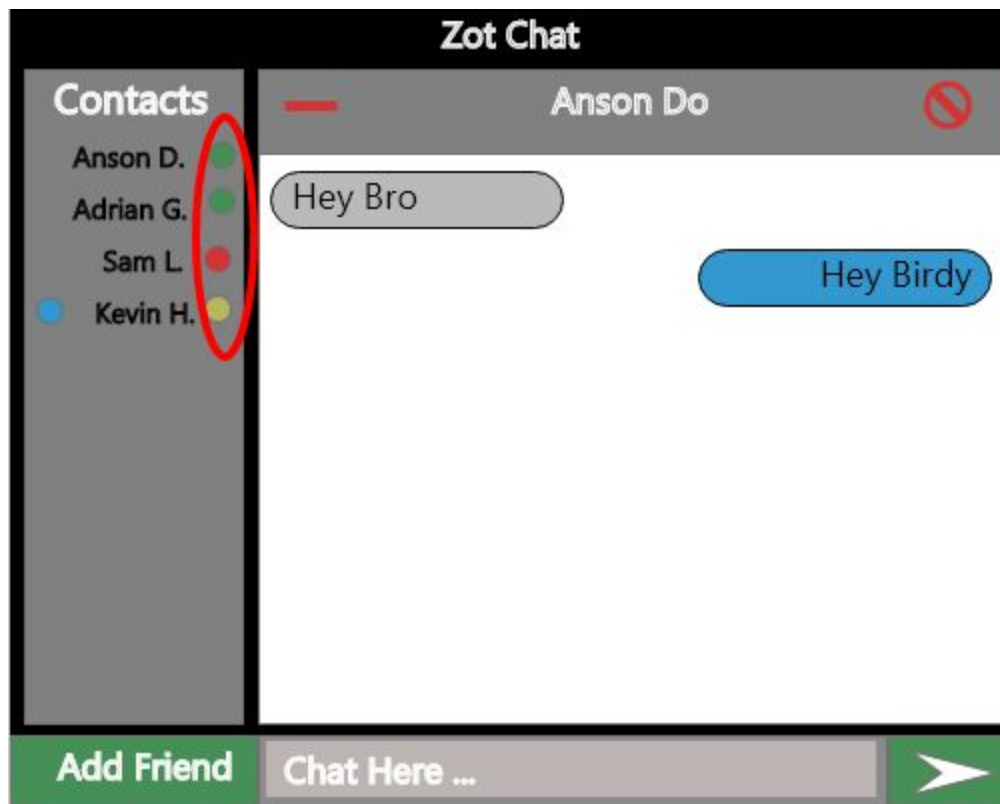
Recipient and Sender

Sender:
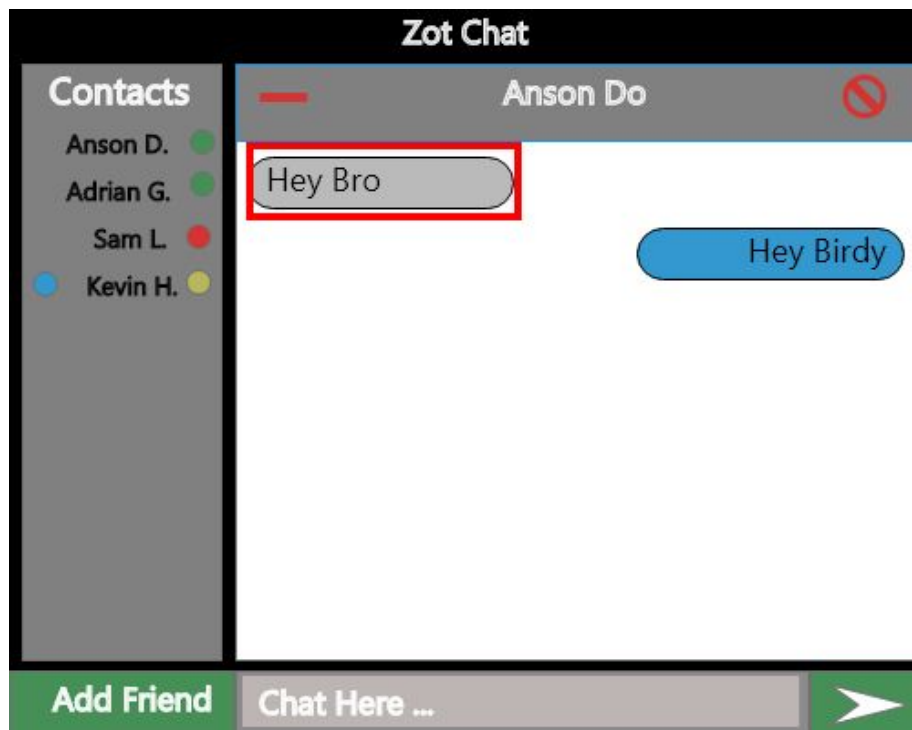
Recipient:
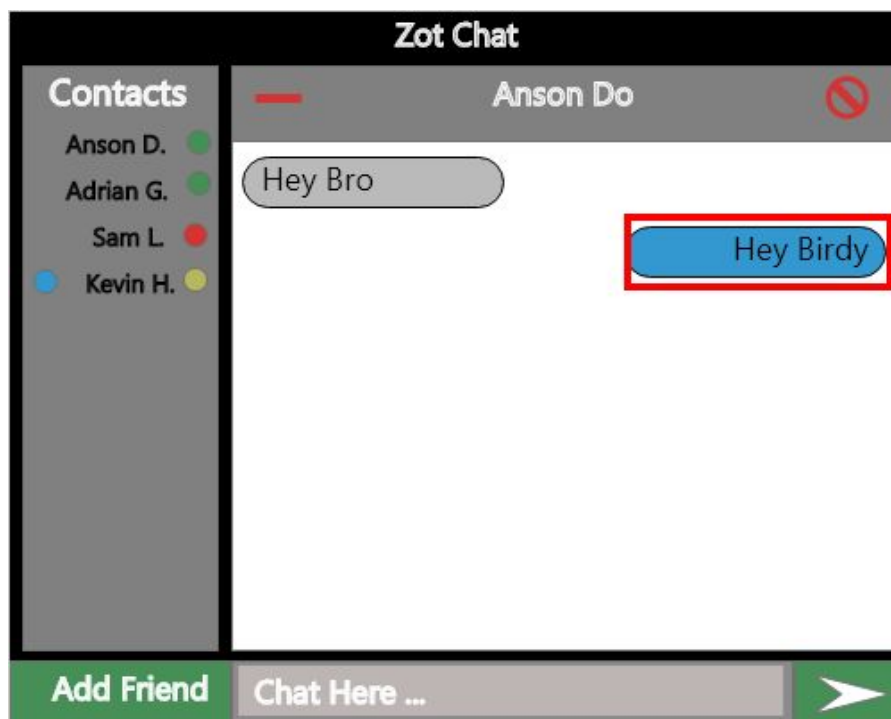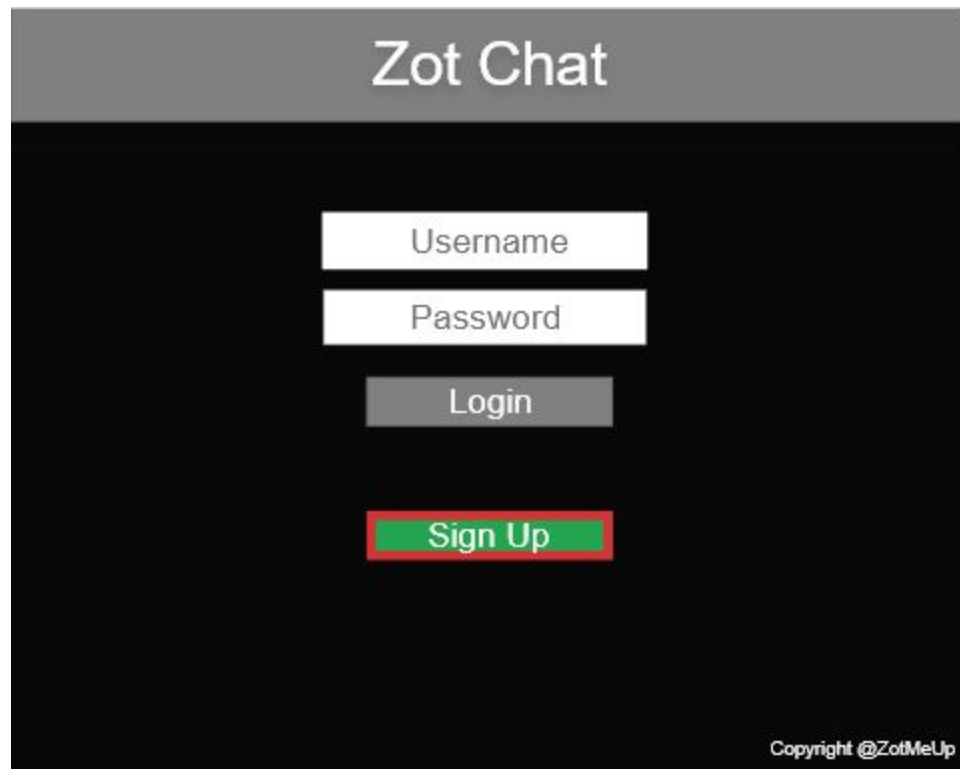
3.2 Detailed Description Signing Up and Logging In

Signing Up
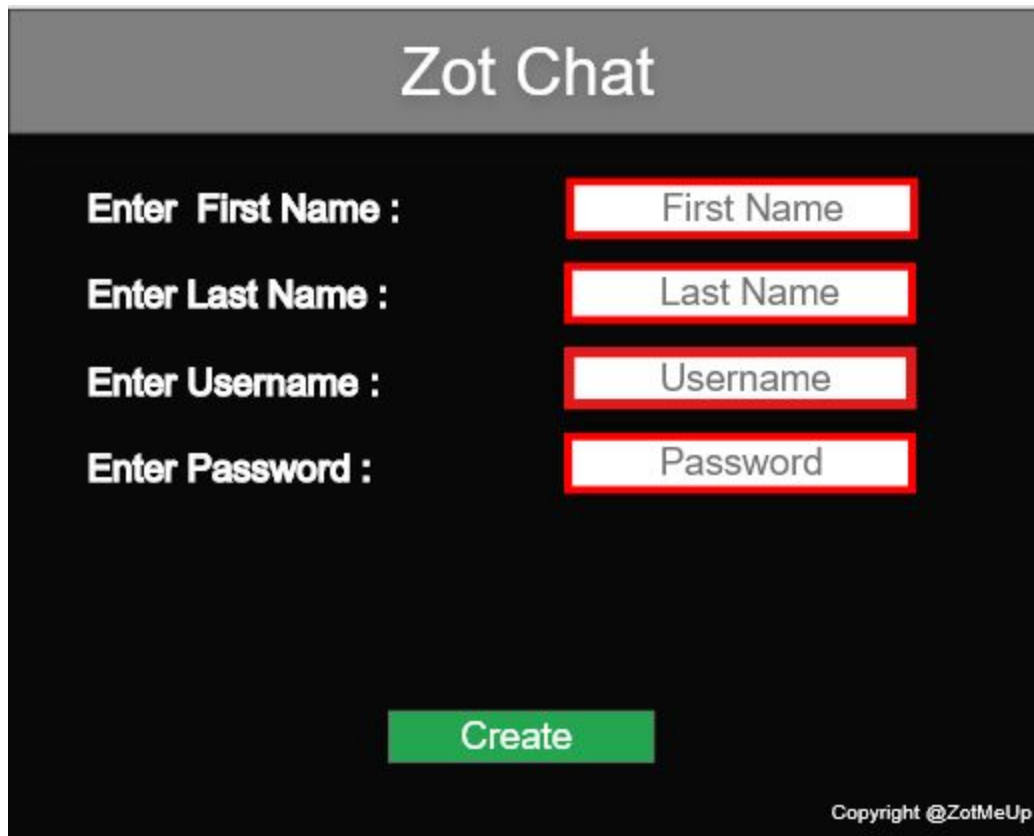
Step 1:
Click on the "Sign Up" box, this will send you to another screen.

Step 2:
Click and provide your credentials in the boxes provided.

Step 3: Please verify that these credentials are correct before you proceed to the next step.

Step 4:
Click on "Create" and your account will be created. You will be directed to your messaging home screen.

Logging In

Step 1:
Click on the "Username" box and enter your credentials.

Step 2:
Click on the "Password" box and enter your credentials.

Step 3:
Please make sure that your credentials are correct then proceed to the next step.

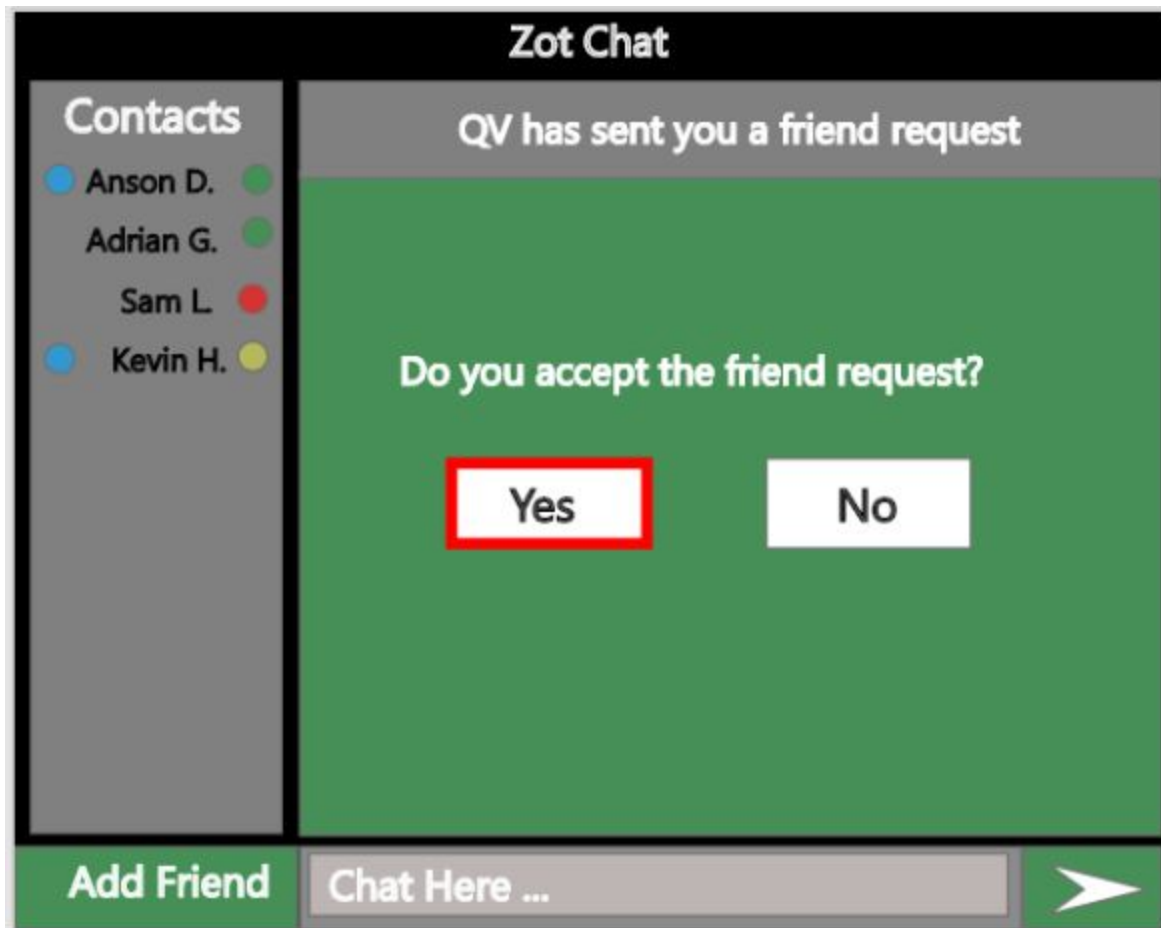Step 4: Click on the "Login" box and you will be directed to your home messaging screen.

3.3 Accepting/ Rejecting Friend Requests.

   Step 1: A screen will interrupt your window to the "Accepting friend request screen.
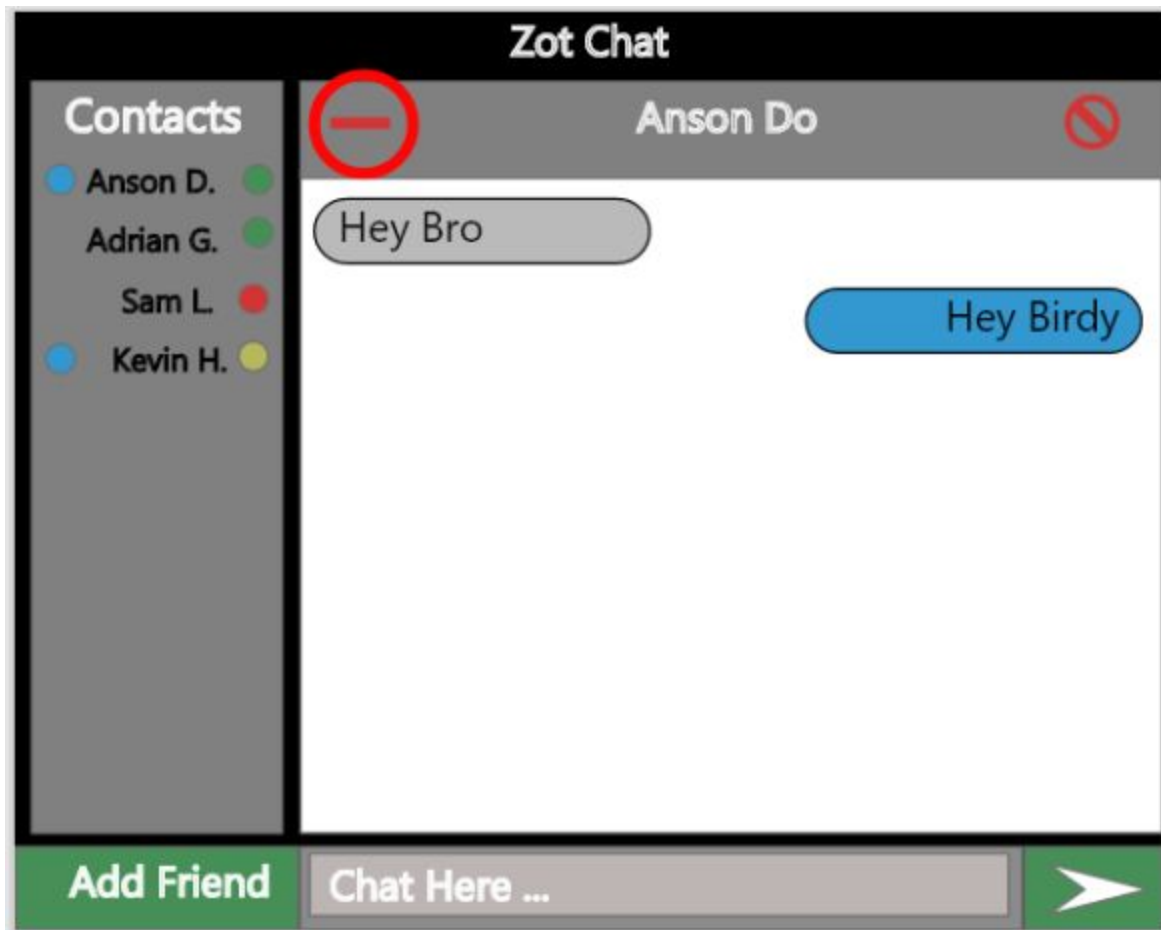

If the request is accepted, the user will be added to your contacts list.
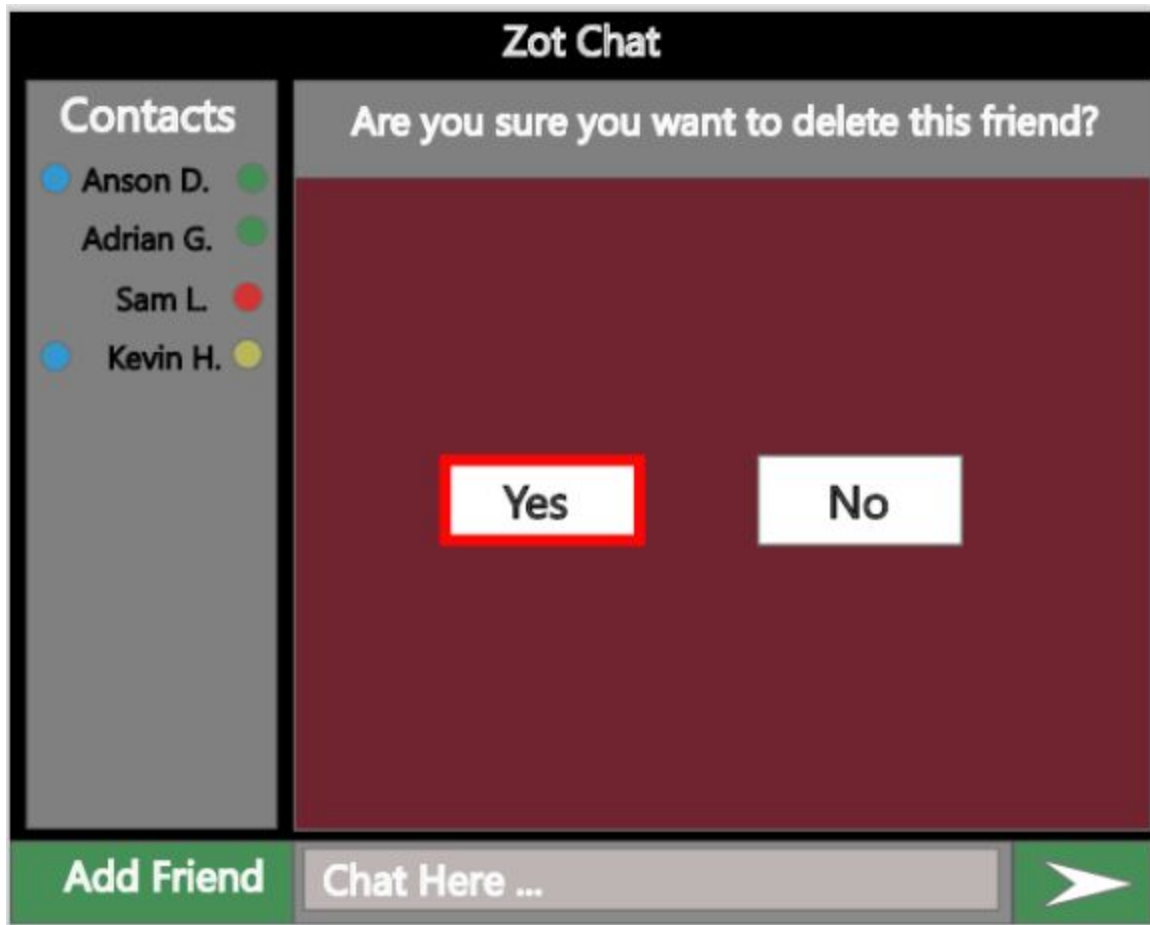   If not, you will be returned to the screen you were previously on.

3.4 Deleting/ Blocking a friend.

Deleting a friend

Step 1: Click the "-" sign in the chat of the person you wish to delete.
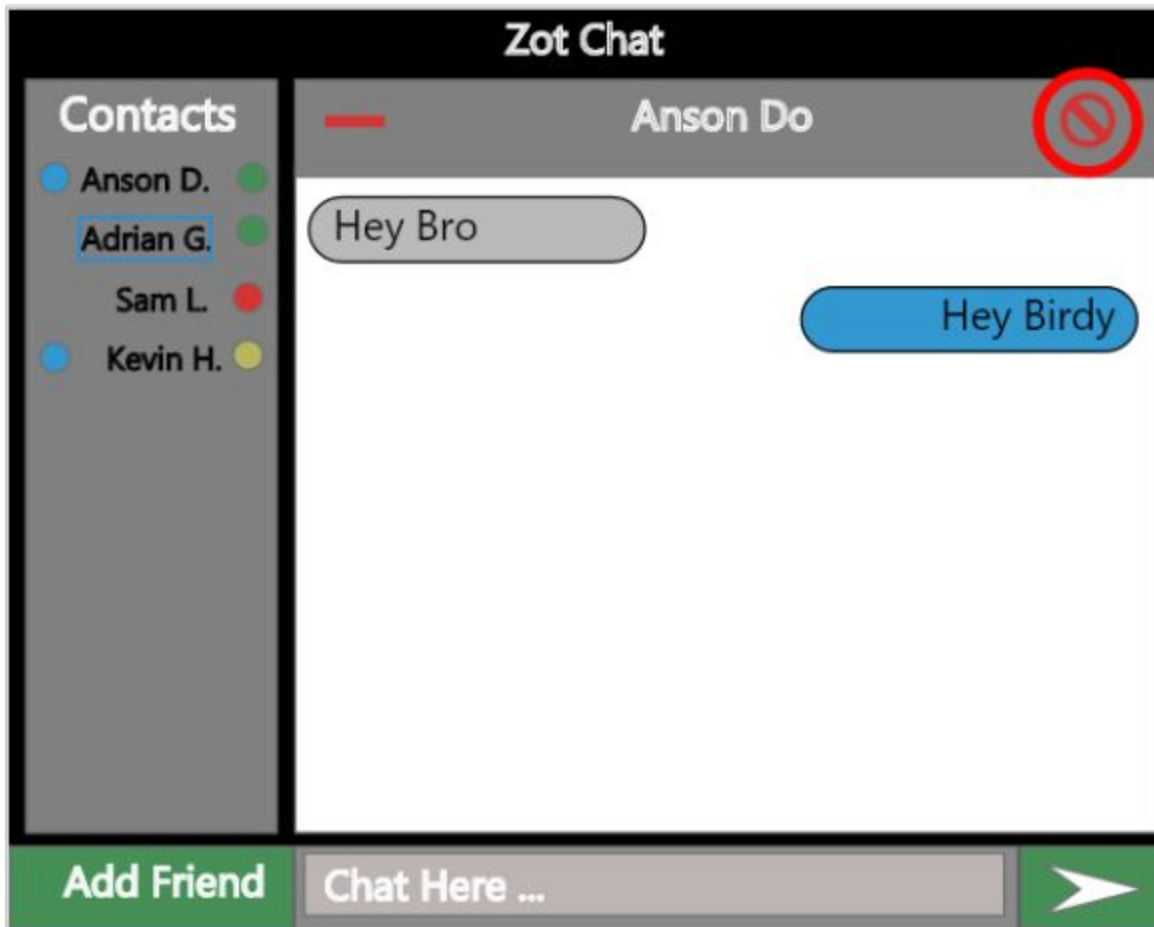
Step 2: A screen will direct you to confirm or deny the request and return you to either the main screen or back to the chat.
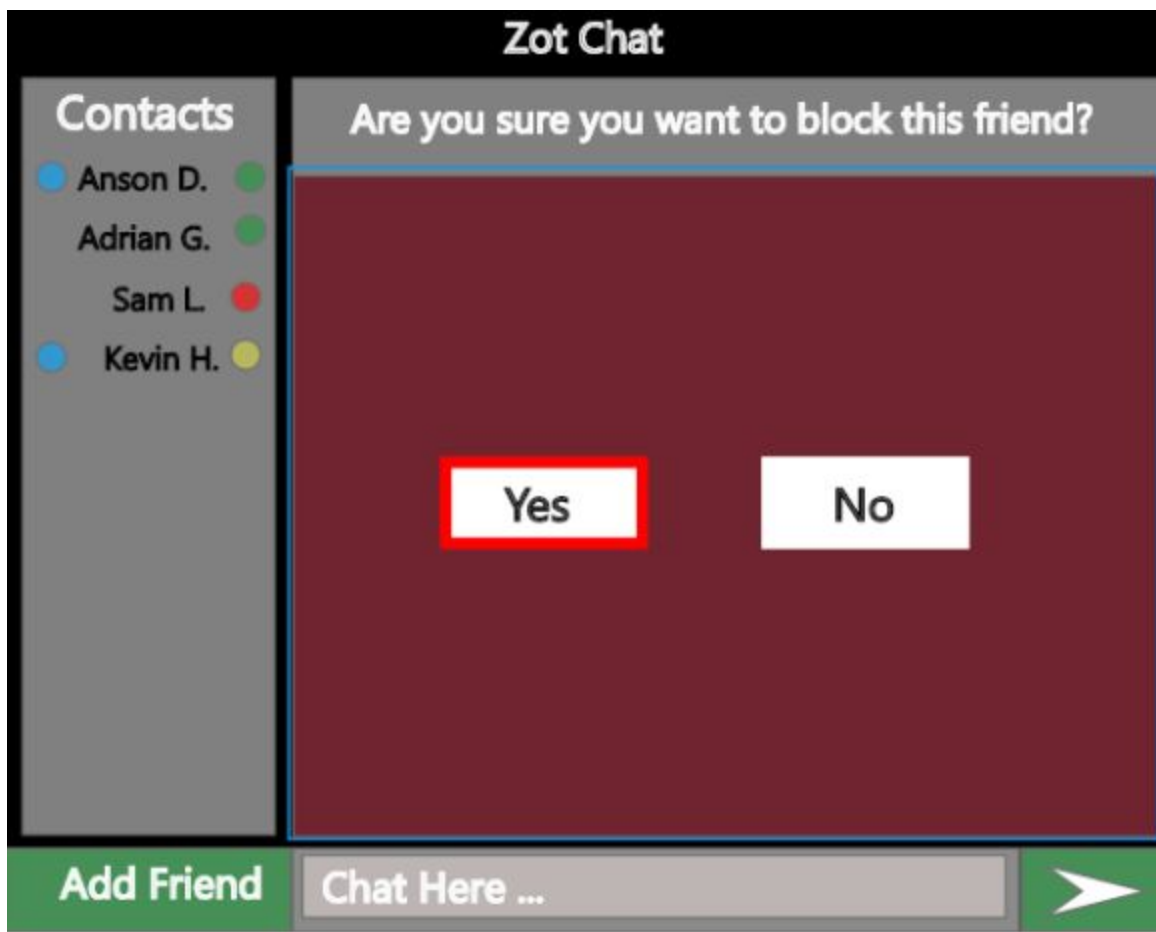
Blocking a friend

Step 1: To block a friend, click the block status next to the name.

Step 2: A screen will direct you to either confirm or deny the block request. Once selected, it will either return you to the home screen or back to the chat if "no" is selected.

# 4. Chess Program Functions and Features

4.1 Integrated ASCII Chess Game in Chat

Integrated chess within the chat window, so each person will say their specified move (ie like a3 to a4) and the board will update through that person's chat window so the other person can see then the other player can do the same, while being able to chat.
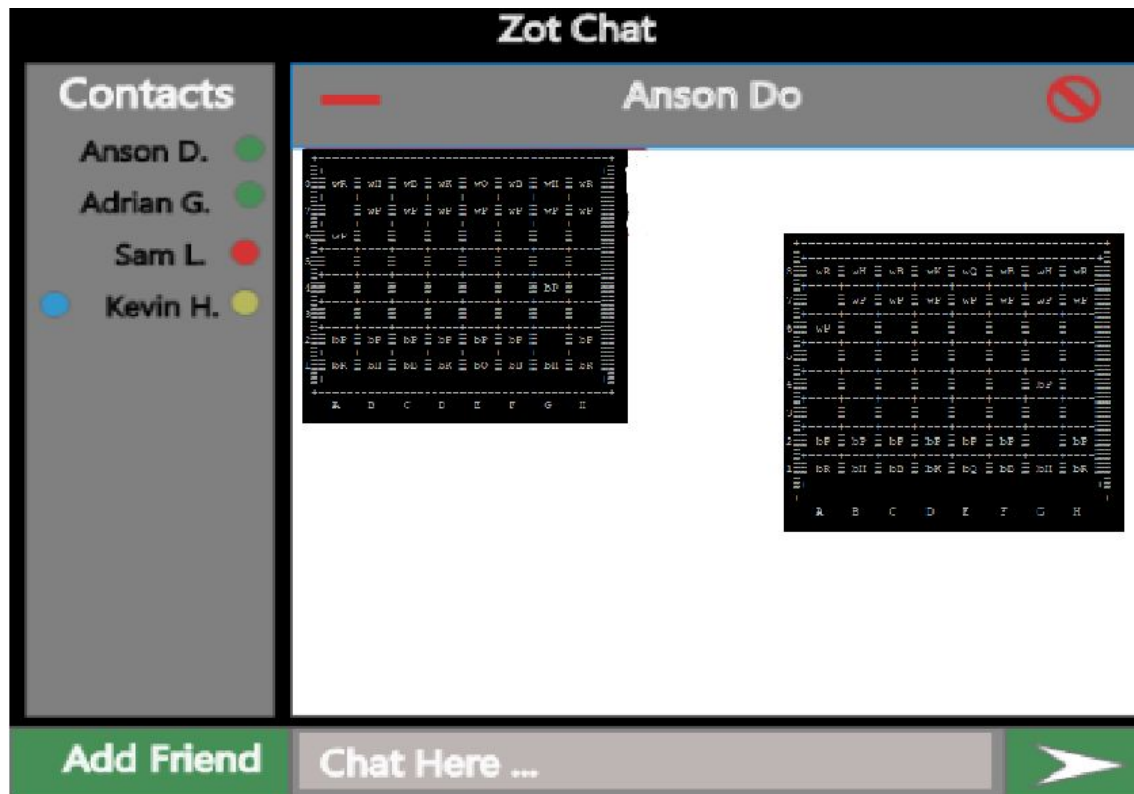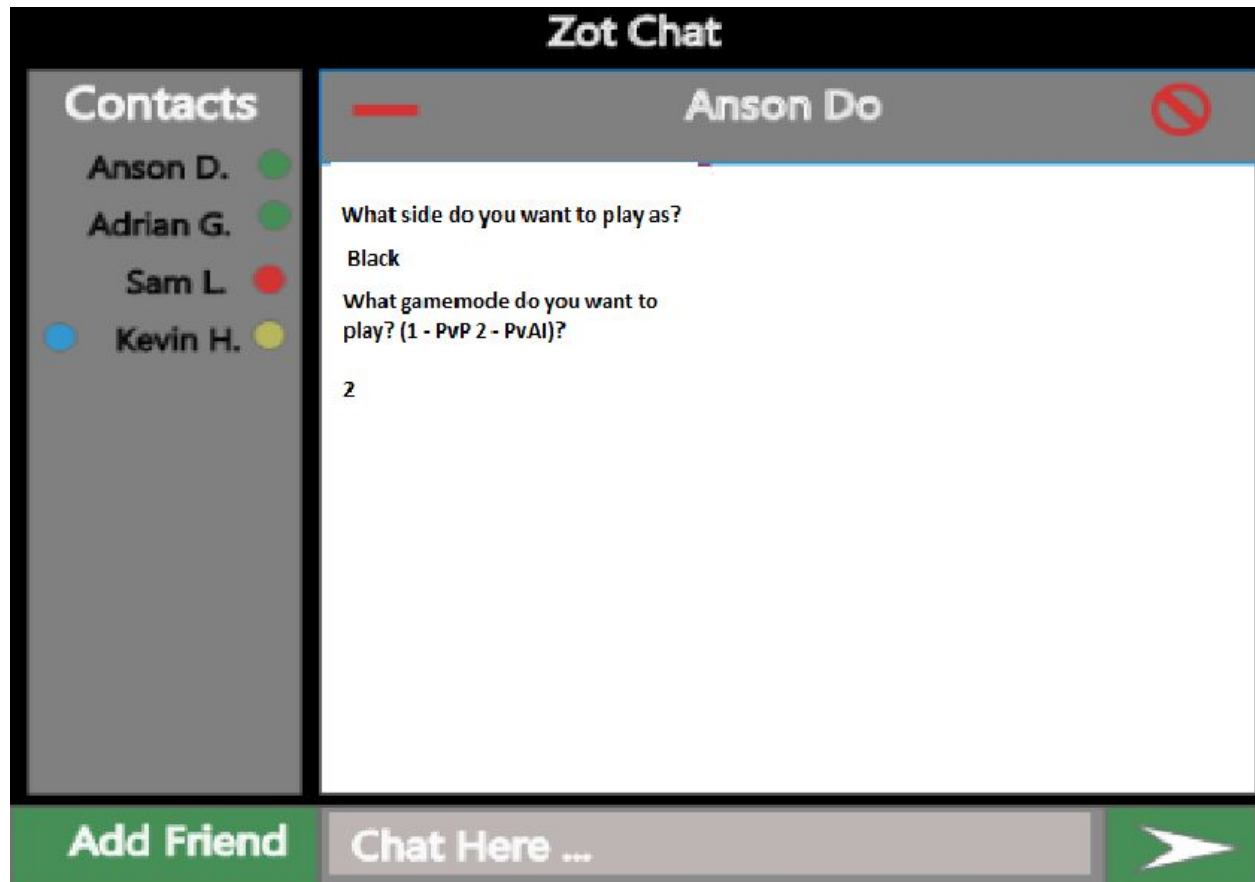
4.2 Text input for chess

The chess program will ask the user where they want to move and it will then ask the other player, it should tell the user if the move they wanted to move to is illegal and ask the player again to make another move.
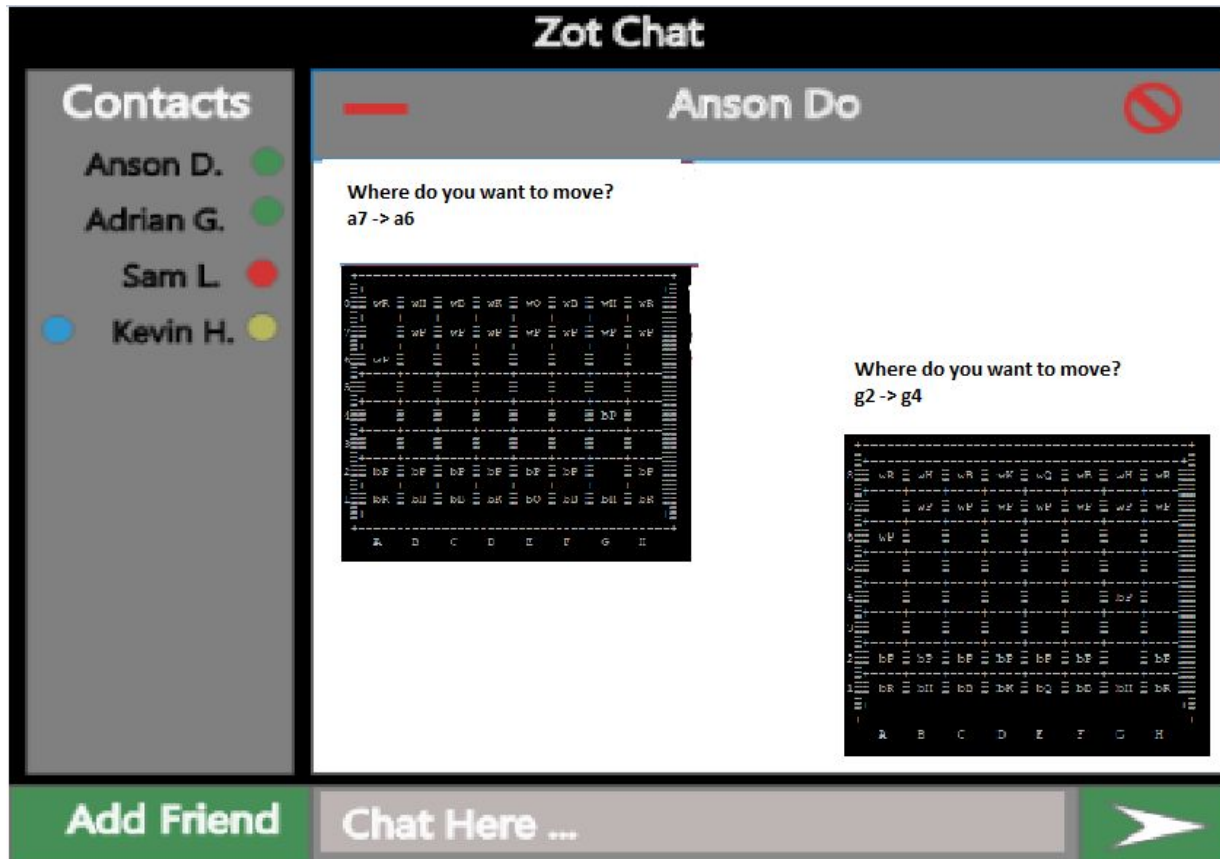
4.3 Game Setup for chess

Simple game setup with text based inputs, this is for what side the player wants to play as and the gamemode.

Zot Chat

Contacts

Anson D. 🟢
Adrian G. 🟢
Sam L 🔴
🔵 Kevin H. 🟡

Anson Do   🚫

What side do you want to play as?

Black

What gamemode do you want to play? (1 - PvP 2 - PvAI)?

2

Add Friend   Chat Here ...   ➤

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ERROR MESSAGES

Error	Meaning	How to Resolve
100	Wrong username	Try to type a valid username
101	Wrong password	Try to type the correct password
102	Could not connect to server	Try to make sure you have the correct IP
103	Username taken	Try another username

INDEX