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Software development I

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Abstract

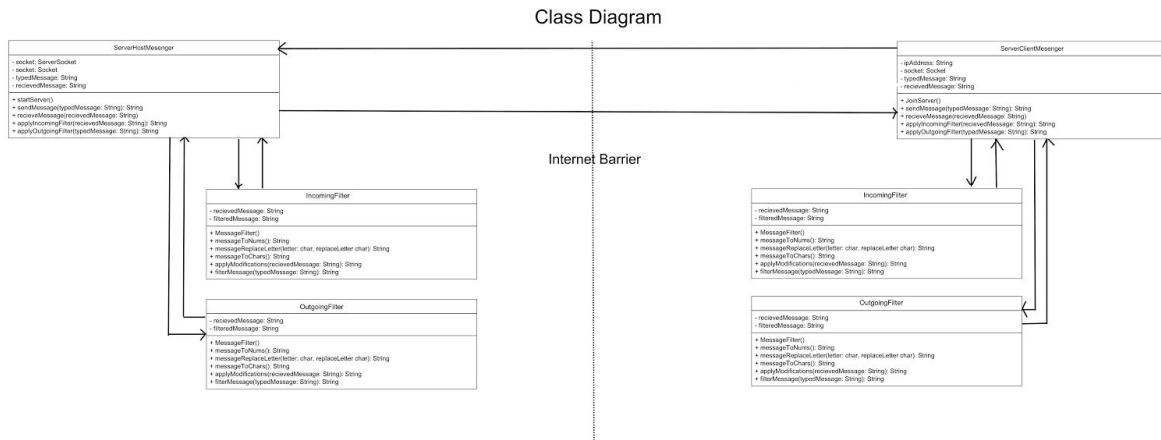
The product is a modification on a standard instant messenger. This program will have the capability to modify sent and received messages according to program specifications or added java classes.

Introduction

This project is made to fulfill the purposes of communication, entertainment, customizability and security. By enabling the user to control the inputs and output of the messenger with filters they will have free reign over what they may use this program for.

This paper will include a description of how the program works, a description of how one will interact with it and a description of class interaction with a uml diagram. A requirements list will be provided. The paper will include a literature survey to compare the work to other products. There will be a user manual to describe how to use the product. Finally the paper will provide a conclusion and references to any materials.

Detailed System Description



The System will work by First Starting a Server through the serverHostMessenger program. The serverClientMessenger program will join. Once connected the programs may send messages. A message may be sent or recieved by either program. A sent message is first ran through the programs output filter and then sent to the other program. The other program runs the message through their input filter before recieveing it as a message. (Class Diagram is also in seperate file)

Requirments

The system requires internet on both devices running the programs. The program must be able to transfer strings from one program to another through the internet. Both programs require input devices and display devices for the messages. Both programs must have a filter class for both incoming and outgoing filtering.

Literature Survey

What's App is an app that adresses very similar issues. What's App is a mesanger on ios and android that uses encrypted messanging. "Privacy and security is in our DNA, which is why we have end-to-end encryption in the latest versions of our app."(WhatsApp.com). Because

of the encrypted messaging this app provides communication and security. It is an app widely used amongst tech savvy individuals who value privacy.

User Manual

To use this program you must have one user with the serverHostMessenger program and another with the serverClientMessenger program. The server host must first open up their program, once open they tell the ip of the server to the server client. The client must run their program and input the ip into a query. Once both are connected they may send messages that will filter based on the input and output filters, they may edit the files of the input and output filters before use to get desired results.

Conclusion

In conclusion this is a messenger program with filtering capabilities. It provides users with communication, entertainment, customizability, and security. Through the filtering users can either make fun chats with friends or use custom encryptions. The program has similarities with WhatsApp. The program is used through a process of setting up and server and interaction with another device.

References

"WhatsApp FAQ - End-to-End Encryption." WhatsApp.com. WhatsApp Inc., n.d. Web. 07 Apr. 2017.