Name: Eveniezer Yohans COIS 3040 Assignment 1

A Testing Document

Server terminal waiting for a connection

```
ile:///C:/Users/Evi Jhe Ephi/OneDrive/Computer Science/Winter 2022/COIS-3040/Assignment 1/server_A1/Waiting for a connection...
```

Server terminal when client connected

III file:///C:/Users/Evi Jhe Ephi/OneDrive/Computer Science/Winter 2022/COIS-3040/Assignment 1/server_A1/:

```
Waiting for a connection...
Connected
```

Client terminal

```
C:\Users\EviJhe Ephi\OneDrive\Computer Science\Winter 2022\COIS-3040\Assignment 1\A1\A1\bin\Debug\.

Socket connected to [fe80::a987:cdac:edb:b58f%14]:11000

Welcome to Fun Support Chat!

How can I help! Ask me questions!
```

User input on client terminal- "what is life?" And the server responds on the client terminal

```
C:\Users\EviJhe Ephi\OneDrive\Computer Science\Winter 2022\COIS-3040\Assignment 1\A1\A1\bin\D... — \ \ Socket connected to [fe80::a987:cdac:edb:b58f%14]:11000

Welcome to Fun Support Chat!
How can I help! Ask me questions!
what is life?
Life, ahh, life... I am still learning about life, maybe quantum computers may have the answer! But keep searching for the true meaning of life!
```

User input on server terminal to show that text has been received from client

```
file:///C:/Users/Evi Jhe Ephi/OneDrive/Computer Science/Winter 2022/COIS-3040/Assignment 1/server_A1/:
Waiting for a connection...
Connected
Text received : what is life?
```

Wrong user input on client terminal. Server replies that it doesn't understand and displays the expected correct input

```
what is my name?

Sorry, I dont understand
I can only answer questions about
- Life
- Work
- Computer
- Marriage
- Technology
To Exit, simply type quit
```

Another correct user input on the client terminal about marriage and response from server

```
what can you tell me about marriage?
Marriage is when a man and woman become as one. The trouble starts when they try to
decide which one.
```

More user input

```
How can I learn computer programming in a month?

How did the good teacher know how to teach computer programming to the inpatient boy? He taught the kid about computers bit by bit!
```

More user input

```
How advanced are humans in technology?

We humans like to think ourselves pretty advanced ? and with no other technol ogy-bearing beings to compare ourselves to, our back-patting doesn?t have to take context into account. After all, we harnessed fire, invented stone tools and the wheel, developed agriculture and writing, built cities, and learned to use metals.
```

When user decides to exit and types guit

quit Good Bye! Run the app again when you have more questions in the future.

All client and server interactions on client terminal

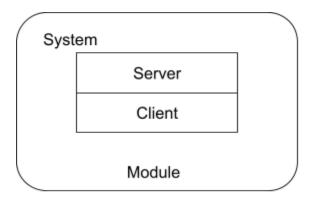
C:\Users\Evi Jhe Ephi\OneDrive\Computer Science\Winter 2022\COIS-3040\Assignment 1\A1\A1\... Welcome to Fun Support Chat! How can I help! Ask me questions! what is life Life, ahh, life... I am still learning about life, maybe quantum computers may have the answer! But keep searching for the true meaning of life! what is my name? Sorry, I dont understand I can only answer questions about Life Work Computer Marriage Technology To Exit, simply type quit what can you tell me about marriage? Marriage is when a man and woman become as one. The trouble starts when they try to decide which one. quit Good Bye! Run the app again when you have more questions in the future.

All client input on server terminal

III file:///C:/Users/Evi Jhe Ephi/OneDrive/Computer Science/Winter 2022/COIS-3040

Waiting for a connection... Connected Text received : what is life Text received : what is my name? Text received : what can you tell me about marriage? Text received : quit

Decomposition View



Server

SychronousSocketListener

+data:string=null

+keepRunning:bool=true

+MoreData:bool=true

+bytesRec:int=handler.Receive(bytes)

+main(args: String[]): int

+StartListening():void

Client

SychronousSocketListener

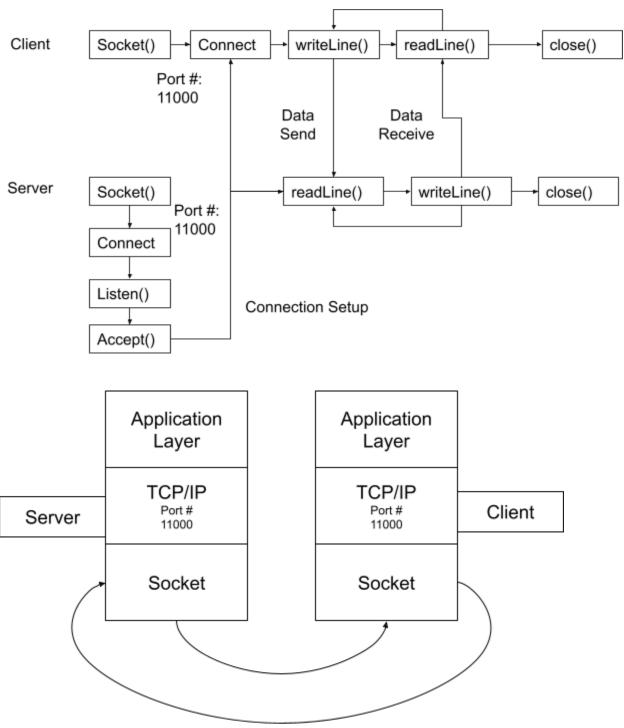
-userInput:string=Console.ReadLine()
-bytesRec:int=handler.Receive(bytes)

-bytesSent:int=sender.Send(msg)

+StartListening():void

+main(args: String[]): int

A service structure view



Data transmission across established network

A Quality Attribute Scenario

