Submission Worksheet

CLICK TO GRADE

https://learn.ethereallab.app/assignment/IT114-003-F2024/it114-module-4-sockets-part-1-3/grade/cae6

Course: IT114-003-F2024

Assigment: [IT114] Module 4 Sockets Part 1-3

Student: Chizorom E. (cae6)

Submissions:

Submission Selection

1 Submission [submitted] 10/8/2024 12:25:14 AM

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Instructions

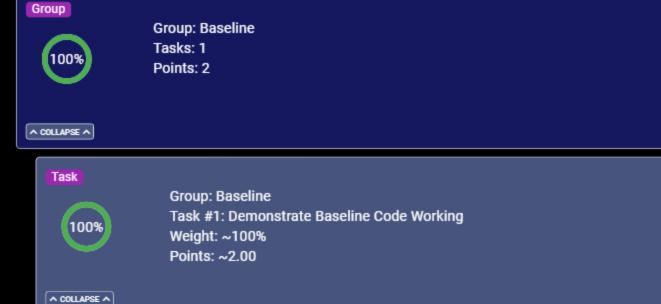
^ COLLAPSE ^

Overview Video: https://youtu.be/5a5HL0n6jek

- Create a new branch for this assignment
- 2. If you haven't, go through the socket lessons and get each part implemented (parts 1-3)
 - You'll probably want to put them into their own separate folders/packages (i.e., Part1, Part2, Part3) These are for your reference
- Part 3, below, is what's necessary for this HW
 - 3. https://github.com/MattToegel/IT114/tree/M24-Sockets-Part3
- Create a new folder called Part3HW (copy of Part3)
- Make sure you have all the necessary files from Part3 copied here and fix the package references at the top of each file
 - Add/commit/push the branch
 - Create a pull request to main and keep it open
- Implement two of the following server-side activities for all connected clients (majority of the logic should be processed server-side and broadcasted/sent to all clients if/when applicable)
 - 1. Simple number guesser where all clients can attempt to guess while the game is active
 - Have a /start command that activates the game allowing guesses to be interpreted
 - Have a /stop command that deactivates the game, guesses will be treated as regular messages (i.e., guess messages are ignored)
 - 3. Have a /guess command that include a value that is processed to see if it matches the hidden number (i.e., /quess 5)
 - 1. Guess should only be considered when the game is active
 - The response should include who guessed, what they guessed, and whether or not it was correct (i.e., Bob guessed 5 but it was not correct)
 - 3. No need to implement complexities like strikes

- Coin toss command (random heads or tails)
 - 1. Command should be something logical like /flip or /toss or /coin or similar
 - 2. The result should mention who did what and got what result (i.e., Bob Flipped a coin and got heads)
- 3. Dice roller given a command and text format of "/roll #d#" (i.e., /roll 2d6)
 - Command should be in the format of /roll #d# (i.e., /roll 1d10)
 - 2. The result should mention who did what and got what result (i.e., Bob rolled 1d10 and got 7)
- Math game (server outputs a basic equation, first person to guess it correctly gets congratulated and a new equation is given)
 - 1. Have a /start command that activates the game allowing equaiton to be answered
 - Have a /stop command that deactivates the game, answers will be treated as regular messages (i.e., any game related commands when stopped will be ignored)
 - Have an answer command that include a value that is processed to see if it matches the hidden number (i.e., / answer 15)
 - The response should include who answered, what they answered, and whether or not it was correct (i.e., Bob answered 5 but it was not correct)
- Private message (a client can send a message targetting another client where only the two can see the messages)
 - Command can be /pm, /dm followed by the user's name or an @ preceding the users name (clearly note which)
 - The server should properly check the target audience and send the response to the original sender and to the receiver (no one else should get the message)
 - 3. Alternatively (make note if you do this and show evidence) you can add support to private message multiple people at once. Evidence should show a larger number of clients than the target list of the private message to show it works. Note to grader: if this is accomplished add 0.5 to total final grade on Canvas
- 6. Message shuffler (randomizes the order of the characters of the given message)
 - Command should be /shuffle or /randomize (clearly mention what you chose) followed by the message to shuffle (i.e., /shuffle hello everybody)
 - 2. The message should be sent to all clients showing it's from the user but randomized
 - 1. Example: Bob types / command hello and everyone recevies Bob: Ileho
- 7. Fill in the below deliverables
- 8. Save the submission and generated output PDF
- Add the PDF to the Part3HW folder (local)
- Add/commit/push your changes
- Merge the pull request
- 12. Upload the same PDF to Canvas

Branch name: M4-Sockets3-Homework



Details:

This can be a single screenshot if everything fits, or can be multiple screenshots



Columns: 1

Sub-Task 100%

Group: Baseline

Task #1: Demonstrate Baseline Code Working

Sub Task #1: Show and clearly note which terminal is the Server

Task Screenshots

Gallery Style: 2 Columns

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Norwan Mid-Ling
Electric per per 8008
antitre for rest client

Server Terminal

Caption(s) (required) 🗸

Caption Hint: Describe/highlight what's being shown



Group: Baseline

Task #1: Demonstrate Baseline Code Working

Sub Task #2: Show and clearly note which terminals are the client

Task Screenshots



Clients waiting

Caption(s) (required) ~

Caption Hint: Describe/highlight what's being shown



Group: Baseline

Task #1: Demonstrate Baseline Code Working

Sub Task #3: Show all clients receiving the broadcasted/relayed messages

Task Screenshots

Gallery Style: 2 Columns

Gallery Style: 2 Columns

4 2



Showing all the clients recieving the broadcasted/relayed messages

Caption(s) (required) 🗸

Caption Hint: Describe/highlight what's being shown



Group: Baseline

Task #1: Demonstrate Baseline Code Working

Sub Task #4: Include a screenshot showing you grabbed Parts 1-3 correctly and have them in your repository alongside Part3HW

Task Screenshots

Gallery Style: 2 Columns

y Mushied □
> Part1 □
□
> Part2 □
□
| Part2 □
| Part2 □



Part 1-3 grabbed in repository

Caption(s) (required) ~

Caption Hint: Describe/highlight what's being shown

End of Task 1

End of Group: Baseline

Task Status: 1/1

Group



Group: Feature 1

Tasks: 1 Points: 3

^ COLLAPSE ^

Task



Group: Feature 1
Task #1: Solution
Weight: ~100%
Points: ~3.00

^ COLLAPSE ^

Columns: 1



Group: Feature 1 Task #1: Solution

Sub Task #1: Show the code related to the feature (ucid and date must be present as a comment)

Task Screenshots

Gallery Style: 2 Columns

2

Caption(s) (required) 🗸

Caption Hint: Describe/highlight what's being shown

■ Task Response Prompt

Mention specific feature and explain sufficiently and concisely the implementation (should be aligned with code snippets)

Response:

Math game (server outputs a basic equation, the first person to guess it correctly gets congratulated and a new equation is given): Created a random math equation method that creates random math equations and sends them to all clients. Created to random integers that generate random int's a and b, between the numbers 1-10. Then I made an array of 3 random operators and one of those operators will also be randomly picked. If the operator is addition a and b get added, if it's a subtraction operator it a and b are subtracted, and the same for the multiplication operator. The message will then be displayed to the clients. If the client types /start the method gets called, if /answer is input with the value, the answer gets processed. Once /stop is input the game stops and the answer is reset to 100k.



Group: Feature 1 Task #1: Solution

Sub Task #2: Show the feature working (i.e., all terminals and their related output)

Task Screenshots

Gallery Style: 2 Columns

4 2



Math game feature working

Caption(s) (required) 🗸

Caption Hint: Describe/highlight what's being shown

End of Task 1

End of Group: Feature 1

Task Status: 1/1

Group



Group: Feature 2

Tasks: 1 Points: 3



Task



Group: Feature 2 Task #1: Solution Weight: ~100% Points: ~3.00

^ COLLAPSE ^

Columns: 1



Group: Feature 2 Task #1: Solution

Sub Task #1: Show the code related to the feature (ucid and date must be present as a comment)

Task Screenshots

Gallery Style: 2 Columns

4 2



Coin flip feature

Caption(s) (required) 🗸

Caption Hint: Describe/highlight what's being shown

Task Response Prompt

Mention specific feature and explain sufficiently and concisely the implementation (should be aligned with code snippets)s

Response:

Coin toss command (random heads or tails): If the message /flip is entered by the client a random integer will be made and it will either be 0 which represents heads or 1, which is tails. The random.nextInt(2) gives a random number between 0 and 1. Then a message gets relayed and it will say the user flipped a coin and got heads or the user flipped a coin and got tails. It will show the exact client.



Group: Feature 2 Task #1: Solution

Sub Task #2: Show the feature working (i.e., all terminals and their related output)

Task Screenshots

Gallery Style: 2 Columns

2

4

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Shows the coin flip feature working

Caption(s) (required) ~

Caption Hint: Describe/highlight what's being shown

End of Task 1

End of Group: Feature 2

Task Status: 1/1

Group



Group: Misc

Tasks: 3 Points: 2

^ COLLAPSE ^

Task



Group: Misc

Task #1: Reflection Weight: ~33%

Points: ~0.67

^ COLLAPSE ^

Sub-Task

100%

Group: Misc

Task #1: Reflection

Sub Task #1: Learn anything new? Face any challenges? How did you overcome any issues?

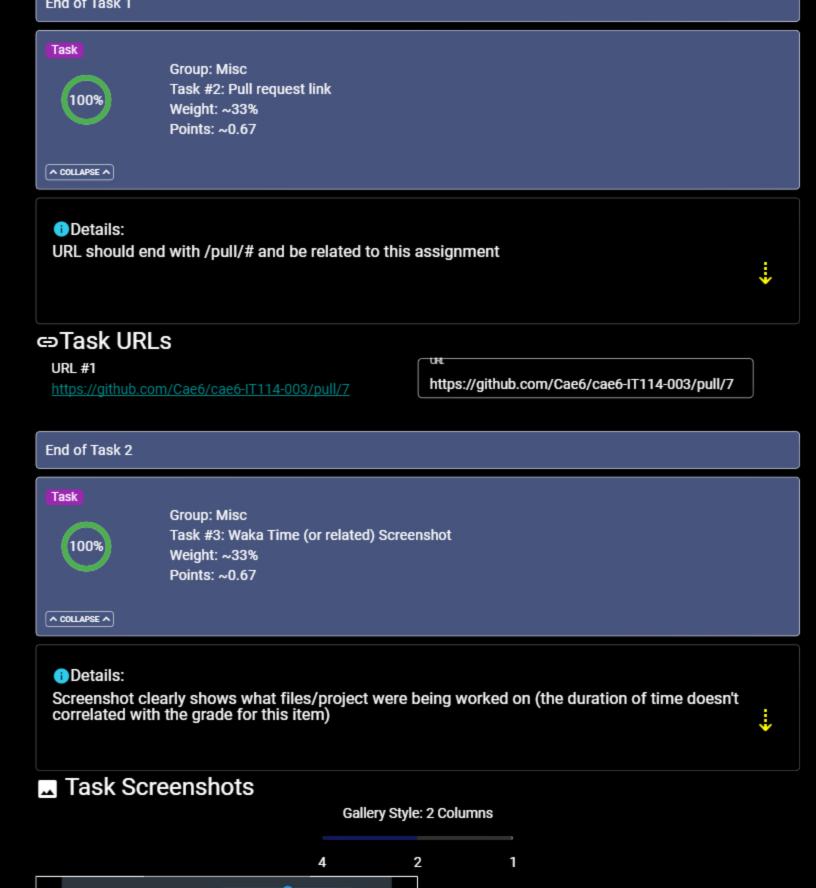
=, Task Response Prompt

Provide at least a few logical sentences

Response:

I faced challenges with the Math game activity when it came to relaying the messages and getting the String format right.

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Mon Oct 7th 2024

1h 48m 19s

1h 48m

Total

cae6-IT114-003

Trans time

End of Task 3

End of Group: Misc Task Status: 3/3

End of Assignment