Submission Worksheet

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https://learn.ethereallab.app/assignment/IT114-450-M2024/it114-module-4-sockets-part-1-3/grade/arc73

IT114-450-M2024 - [IT114] Module 4 Sockets Part 1-3

Submissions:

Submission Selection

1 Submission [active] 6/16/2024 6:44:53 PM

Instructions

^ COLLAPSE ^

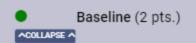
Overview Video: https://youtu.be/5a5HL0n6jek

- Create a new branch for this assignment
- 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
 - 2. 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., /guess 5)
 - 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)
 - No need to implement complexities like strikes
 - Coin toss command (random heads or tails)

- 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)
 - 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
- 9. Add the PDF to the Part3HW folder (local)
- 10. Add/commit/push your changes
- 11. Merge the pull request
- 12. Upload the same PDF to Canvas

Branch name: M4-Sockets3-Homework

Tasks: 6 Points: 10.00





Task #1 - Points: 1

Text: Demonstrate Baseline Code Working



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









#3) Show all clients



#4) Include a screenshot



The state of the s

Caption (required) Describe/highlight what's being shown Blue arrow pointing to terminal containing



Caption (required)
Describe/highlight
what's being shown
Left and right are client.



Caption (required)
Describe/highlight
what's being shown
Message being
displayed across all
terminals.



Caption (required)
Describe/highlight
what's being shown
Showing parts 1-3 and
their files.

Feature 1 (3 pts.)



server.

Task #1 - Points: 1

Text: Solution

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



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



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Caption (required) 🗸

Describe/highlight what's being shown
Solution code for implementation #1 (Number
Guesser)

Explanation (required) <

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

PREVIEW RESPONSE

Feature 1: Simple Number Guesser

Explanation: When the user enters "/start", the number guesser game begins. It sets the variable gameActive to true, then a hiddenNumber variable is generated from 1-50. If the user wants to quit the game, they can enter "/stop". The user can make guesses by entering "/guess" (i.e. "/guess 5"). An error message will be outputted if a value is entered that is non-numeric. Game ends when user guesses correct number.



Caption (required) ~

Describe/highlight what's being shown
Output for implementation #1





Task #1 - Points: 1

Text: Solution

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



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



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Caption (required) 🗸

Describe/highlight what's being shown
Solution code for implementation #2 (Coin Toss)

Explanation (required) ~

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

PREVIEW RESPONSE

Feature 2: Coin Toss

Explanation: Math method allows a generation of a random number between 0 and 1. If the value is less than 0.5, the result is assigned to heads. However, if the result is more than 0.5, it is assigned to tails. When the /flip command is called, the code executes and an output is given with the clientID and the result of their flip.

Caption (required) <

Describe/highlight what's being shown
Output for implementation #2

Misc (2 pts.)



Task #1 - Points: 1

Text: Reflection

#1) Learn anything new? Face any challenges? How did you overcome any issues?



Explanation (required) ~

Provide at least a few logical sentences

PREVIEW RESPONSE

One prevelant challenge in the beginning of this exercise is the command for the implementations to properly function. I called the /flip, /start, and other statements multiple times and restarting the connection to the server, however, still experiencing the same issue. I will continue to research the problem to find the root cause as to why they are not executing as intended.



Task #2 - Points: 1
Text: Pull request link



URL should end with /pull/# and be related to this assignment

URL #1

https://github.com/AhmedCho/arc73-IT114-450/pull/8



Task #3 - Points: 1

Text: Waka Time (or related) Screenshot



Screenshot clearly shows what files/project were being worked on (the duration of time doesn't correlated with the grade for this item)

Task Screenshots:

Gallery Style: Large View

Small Medium Large

0	overview screenshot
Recap of time spent on assignment	
End of Assignment	
End of Assignment	