

Submission Worksheet

CLICK TO GRADE

<https://learn.ethereallab.app/assignment/IT114-003-F2024/it114-module-4-sockets-part-1-3/grade/js2637>

Course: IT114-003-F2024

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

Student: Jack S. (js2637)

Submissions:

Submission Selection

1 Submission [submitted] 10/6/2024 4:40:26 PM

Instructions

^ COLLAPSE ^

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

1. 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)
 1. You'll probably want to put them into their own separate folders/packages (i.e., Part1, Part2, Part3) These are for your reference
3. Part 3, below, is what's necessary for this HW
 3. <https://github.com/MattToegel/IT114/tree/M24-Sockets-Part3>
4. Create a new folder called Part3HW (copy of Part3)
5. Make sure you have all the necessary files from Part3 copied here and fix the package references at the top of each file
 1. Add/commit/push the branch
 2. Create a pull request to main and keep it open
6. 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
 1. Have a /start command that activates the game allowing guesses to be interpreted
 2. 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)
 1. Guess should only be considered when the game is active
 2. 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

2. 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`)
 1. 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)
4. 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 equation to be answered
 2. 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)
 3. Have an answer command that include a value that is processed to see if it matches the hidden number (i.e., `/answer 15`)
 1. 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)
5. Private message (a client can send a message targeting another client where only the two can see the messages)
 1. Command can be `/pm`, `/dm` followed by the user's name or an `@` preceding the user's name (clearly note which)
 2. 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)
 1. 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 receives Bob: lleho
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

Group

100%

Group: Baseline

Tasks: 1

Points: 2

^ COLLAPSE ^

Task

100%

Group: Baseline

Task #1: Demonstrate Baseline Code Working

Weight: ~100%

Points: ~2.00

^ COLLAPSE ^

i 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

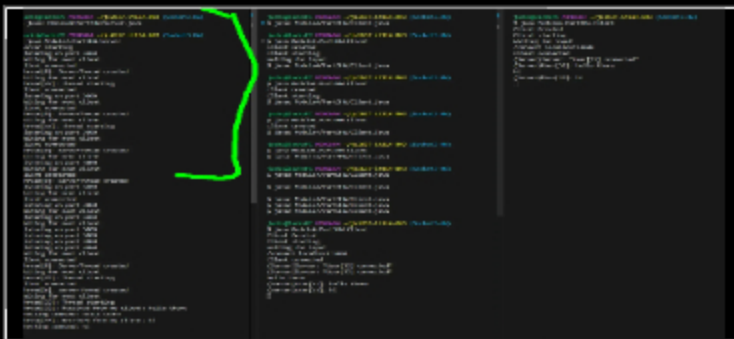
Task Screenshots

Gallery Style: 2 Columns

4

2

1



Left Terminal is the server

Caption(s) (required) ✓

Caption Hint: *Describe/highlight what's being shown*

Sub-Task

100%

Group: Baseline

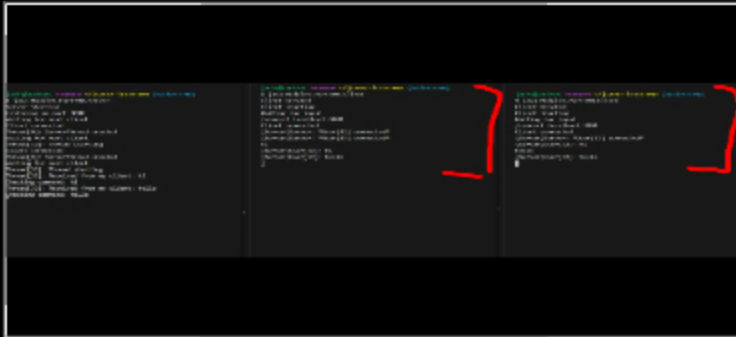
Task #1: Demonstrate Baseline Code Working

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

Task Screenshots

Gallery Style: 2 Columns

4 2 1



The client is the right and middle terminal

Caption(s) (required) ✓

Caption Hint: *Describe/highlight what's being shown*

Sub-Task

Group: Baseline

100%

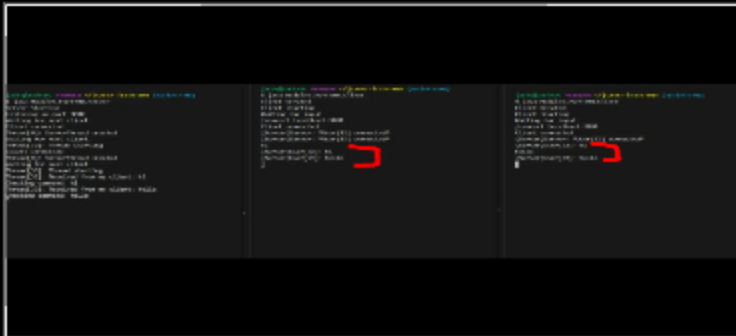
Task #1: Demonstrate Baseline Code Working

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

Task Screenshots

Gallery Style: 2 Columns

4 2 1



Showing Messages

Caption(s) (required) ✓

Caption Hint: *Describe/highlight what's being shown*

Sub-Task

Group: Baseline

100%

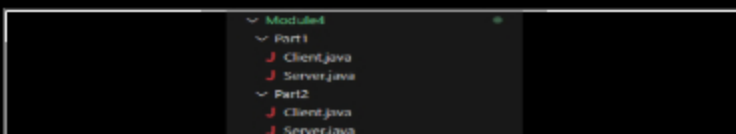
Task #1: Demonstrate Baseline Code Working

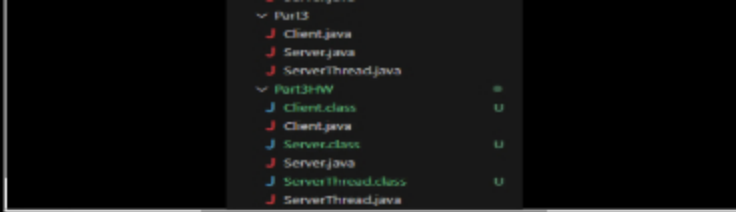
Sub Task #4: Include a screenshot showing you grabbed Parts 1-3 correctly and have them in your repository alongside Part3HW

Task Screenshots

Gallery Style: 2 Columns

4 2 1





Showing part1-3

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

Sub-Task



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

4

2

1



code for the number quesser

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:

I used some of the code from last week's homework with the number guesser to generate the Number and then I used a basic if statement to look for the commands, for the /guess command I had to use the str. substring method so that the user can type their guess with a number on the same line. the if statement grabs just the command and the the code inside the if statement grabs the int and compares it to the random number generated in the /start command. I also added a game state so that the /guess,/start, and /stop commands would only work when appropriate.

Sub-Task

100%

Group: Feature 1

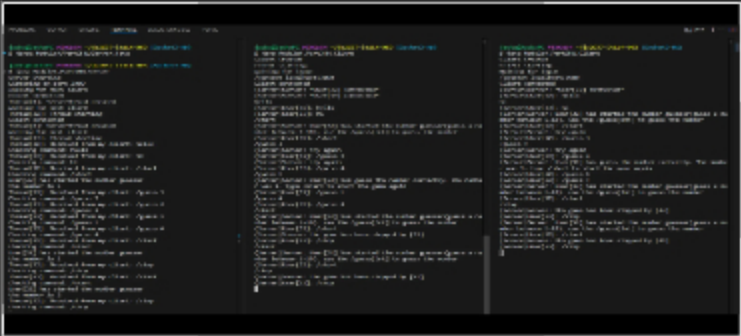
Task #1: Solution

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

Task Screenshots

Gallery Style: 2 Columns

4 2 1



number guesser terminal

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

100%

Group: Feature 2

Tasks: 1

Points: 3

COLLAPSE

Task



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

^ COLLAPSE ^

Columns: 1

Sub-Task



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

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100 // Create the coin class
```

The Flip coin code

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:

I created a flipcoin method that generates a number either 0-1 and made an if statement so if it gets 0 it returns heads and if it gets 1 it returns tails. then I added the if statement in the processcommand method so that if the user types /flips it will relay their user ID and if they got heads or tails.

Sub-Task



Group: Feature 2
Task #1: Solution
Sub Task #2: Show the feature working (i.e., all terminals and their related output)

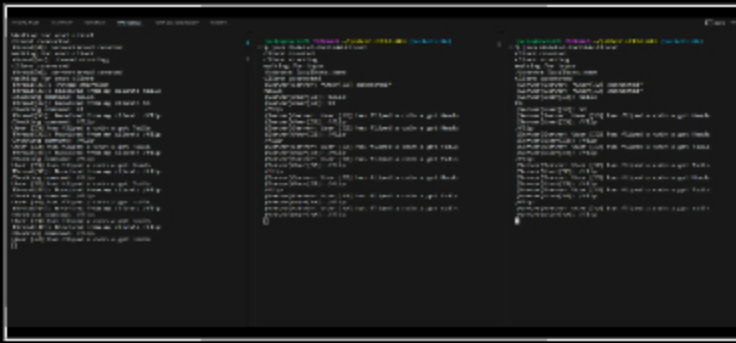
Task Screenshots

Gallery Style: 2 Columns

4

2

1



The Terminal of the flip code

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



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 learn to use the substring method in the String class. This method is quite helpful to get a certain part of the string in the long text. The only challenge i face was finding out where i needed to put the code for it to work the way i wanted.

End of Task 1

Task



Group: Misc
Task #2: Pull request link
Weight: ~33%
Points: ~0.67

^ COLLAPSE ^

Details:

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



Task URLs

URL #1

<https://github.com/Jackshii/Js2637-IT114-003/pull/8>

URL

<https://github.com/Jackshii/Js2637-IT114-003/p>

End of Task 2

Task



Group: Misc
Task #3: Waka Time (or related) Screenshot
Weight: ~33%
Points: ~0.67

^ COLLAPSE ^

Details:

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



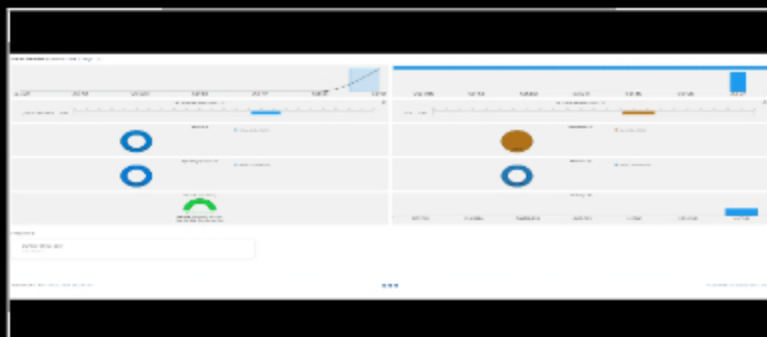
Task Screenshots

Gallery Style: 2 Columns

4

2

1



Missing Caption

End of Task 3

End of Group: Misc
Task Status: 2/3

End of Assignment