Submission Worksheet

Submission Data

Course: IT114-450-M2025
Assignment: IT114 Module 4 Sockets Part3 Challenge
Student: Fariha K. (fk222)
Status: Submitted | **Worksheet Progress:** 100%
Potential Grade: 10.00/10.00 (100.00%)
Received Grade: 0.00/10.00 (0.00%)
Started: 6/23/2025 11:22:17 PM
Updated: 6/24/2025 3:02:56 AM
Grading Link: https://learn.ethereallab.app/assignment/v3/IT114-450-M2025/it114-module-4-sockets-part3-challenge/grading/fk222
View Link: https://learn.ethereallab.app/assignment/v3/IT114-450-M2025/it114-module-4-sockets-part3-challenge/view/fk222

Instructions

- Overview Link: https://youtu.be/_029E_aBTFo

1. Ensure you read all instructions and objectives before starting.
2. Create a new branch from `main` called `M4-Homework`
    1. `git checkout main` (ensure proper starting branch)
    2. `git pull origin main` (ensure history is up to date)
    3. `git checkout -b M4-Homework` (create and switch to branch)
3. Copy the template code from here: GitHub Repository - M4 Homework
    - It includes Sockets `Part1`, `Part2`, and `Part3`. Put all into an `M4` folder or similar if you don't have them yet (adjust `package` reference at the top if you chose a different folder name).
    - Make a copy of `Part3` and call it `Part3HW`
        - Fix the `package` and `import` references at the top of each file in this new folder (Note: you'll only be editing files in `Part3HW`)
    - Immediately record to history
        - `git add .`
        - `git commit -m "adding M4 HW baseline files"`
        - `git push origin M4-Homework`
        - Create a Pull Request from `M4-Homework` to `main` and keep it open
4. Fill out the below worksheet
    - Each Problem requires the following as you work
        - Ensure there's a comment with your UCID, date, and brief summary of how the problem was solved
        - Code solution (add/commit periodically as needed)
        - Hint: Note how `/reverse` is handled
5. Once finished, click "Submit and Export"
6. Locally add the generated PDF to a folder of your choosing inside your repository folder and move it to Github
    1. `git add .`
    2. `git commit -m "adding PDF"`

3. `git push origin M4-Homework`
4. On Github merge the pull request from `M4-Homework` to `main`

7. Upload the same PDF to Canvas
8. Sync Local
    1. `git checkout main`
    2. `git pull origin main`

Section #1: (3 pts.) Challenge 1 - Coin Flip

Progress: 100%

--- Section Collapsed ---

Section #2: (3 pts.) Challenge 2 - Private Message

Progress: 100%

--- Section Collapsed ---

Section #3: (3 pts.) Challenge 3 - Shuffle Message

Progress: 100%

--- Section Collapsed ---

Section #4: (1 pt.) Misc

Progress: 100%

☰ Task #1 (0.33 pts.) - Github Details

Progress: 100%

Part 1:

Progress: 100%

Details:
From the Commits tab of the Pull Request screenshot the commit history Following minimum should be present

commits history

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Part 2:

Progress: 100%

Details:
Include the link to the Pull Request (should end in `/pull/#`)

URL #1
https://github.com/fkh222/fk222-IT114-450/

URL
https://github.com/fkh222/fk222-

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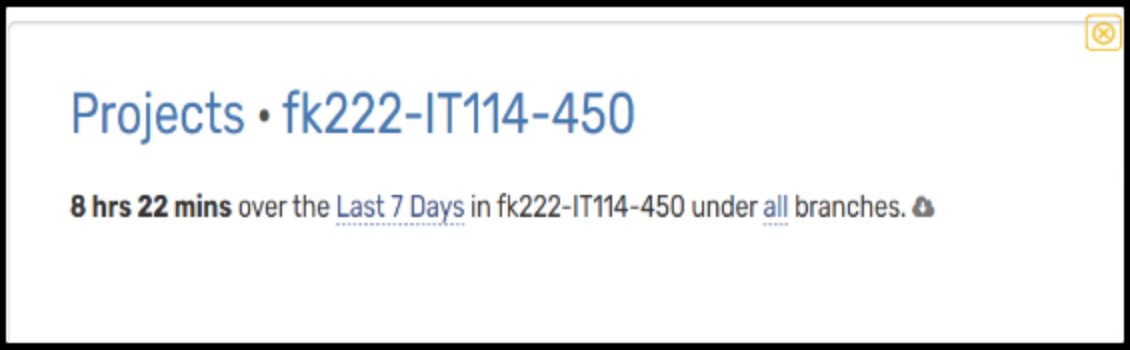
Task #2 (0.33 pts.) - WakaTime - Activity

Progress: 100%

Details:

- Visit the WakaTime.com Dashboard
- Click `Projects` and find your repository
- Capture the overall time at the top that includes the repository name
- Capture the individual time at the bottom that includes the file time
- Note: The duration isn't relevant for the grade and the visual graphs aren't necessary



overall time w repository name

individual files and branches

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Task #3 (0.33 pts.) - Reflection

Progress: 100%

Task #1 (0.33 pts.) - What did you learn?

Progress: 100%

Details:
Briefly answer the question (at least a few decent sentences)

Your Response:

I learned a lot in this module, such as the basics of sockets and server threads, which I had not heard of before. It was interesting to learn how client-server connections handle multiple connections at once through threads. This homework assignment also gave me an idea of how direct messages work on social media, for example. Obviously, current-day apps are much more advanced than this, but the analogy is helpful to connect what we learned to what we use daily.

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Task #2 (0.33 pts.) - What was the easiest part of the assignment?

Progress: 100%

Details:
Briefly answer the question (at least a few decent sentences)

Your Response:

The easiest part was honestly the last challenge, since by then, I had started to get the hang of how the files interact with each other. The challenge was also simpler than the previous one, so it surprised me, haha.

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Task #3 (0.33 pts.) - What was the hardest part of the assignment?

Progress: 100%

Progress: 100%

Details:
Briefly answer the question (at least a few decent sentences)

Your Response:

The hardest challenge was definitely the private message command. I was stuck for a long time trying to find mistakes in my code, because my private messages kept displaying as "[cmd], pm, ", rather than the code actually processing the command. After some fixing with how the /pm command gets processed, and also realizing that I needed to recompile the server every time I make a simple change, I got it to work.

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