CIS 4250 – Software Design V
Instructor: Prof. S. Scott
Individual Accountability Report (IAR) Template

Note. Refer to the Project Manual for detailed instructions for IAR submissions.

Individual Accountability Report (IAR) Template
The following questions MUST be included and answered completely for each submitted IAR.

IAR must be submitted one of the following file formats: text or PDF.

Q1. Student Name: Naza Anyaegbunam

Q2. Student ID: 1158144

Q3. Associated Team Deliverable: Sprint 3

Q4. Team #: Group 6 Section 2

Q5. What were the main technical or methodological knowledge, skills and/or abilities (KSAs) that were required to complete this team deliverable? What prior courses or experiences (e.g. co-op, group project, etc.) from your Software Engineering degree did you draw on for these KSAs? (bulleted list is preferred):

- ☐ Refamiliarizing myself with how React and JS work together
- ☐ Understanding Tailwind
- ☐ Refamiliarizing myself with the MongoDB database.
- ☐ Translating technical requirements into clear documentation.
- ☐ Coordinating tasks with team members and integrating components effectively.
- ☐ Using GitHub for version control and code management.
- ☐ **CIS*2170+CIS*4300:** Implemented user-centric functionality using hooks.
- ☐ **CIS*3530**: Gained experience with database design and modelling
- ☐ **Co-op Placements**: Collaborated on scalable web applications and integrated real-time features.
- ☐ **Group Projects**: Designed end-to-end solutions and managed full-stack integrations.

Q6. What was your existing level of experience with these topics/skills before your team began working on this deliverable? (1-2 sentences):

Before working on this deliverable, I had a basic understanding of user authentication, database management, and frontend/backend communication, but I had little to no experience implementing a block/unblock feature in a real-time chat application. This project helped me gain hands-on experience with managing user permissions, updating UI dynamically, and ensuring data persistence across sessions.

Q7. Comment on your individual KSAs learning during this deliverable, and what additional learning may be needed to understand or be more competent with these topics / tasks in the future?

For this deliverable, I enhanced my knowledge, skills, and abilities (KSAs) in areas such as real-time data handling, state management, and backend API integration. I learned how to dynamically update UI elements based on database changes and how to ensure data persistence when users block or unblock others. Additionally, I improved my debugging skills when handling API responses and ensuring the correct error messages were displayed. Moving forward, I would benefit from deeper learning in database optimization for handling blocked users efficiently, as well as enhancing real-time event handling using WebSockets for a smoother user experience. Gaining more experience with unit and integration testing would also help ensure the robustness of features like this.

Q8. What specific contributions did you make to this team deliverable? This should include technical or project management contributions.

- Implemented the Block/Unblock User feature, ensuring users could restrict others from messaging them.

- Updated the backend API to handle block/unblock requests and enforce messaging restrictions.

- Modified the frontend UI, ensuring the block/unblock button dynamically updates and persists after refresh.

- Assisted with merge conflicts

- Git management

Q9. With whom did you collaborate for any of the above contributions (be specific – saying "all team members" is not sufficient. State which parts you worked on with whom)?

- Git management was done alongside Ike, Eddie, Jake, Dawoud

- Merge conflicts were done alongside Eddie, Ike, Jake, Dawoud

- All other tasks were done individually

Q10. Comment on how well you managed your time over the time period allocated in the Course timetable to this team deliverable (i.e. the time between the prior team deliverable to this team deliverable).

I managed my time effectively throughout the period allocated for this team deliverable, ensuring steady progress while balancing other responsibilities. Early on, I focused on understanding the requirements and setting up the necessary backend and frontend components. Midway, I allocated time for debugging, testing, and refining the feature to ensure a smooth user experience. Towards the deadline, I collaborated with teammates to review functionality, gather feedback, and make final adjustments. In terms of time management, I would say this one was handled the best out of all 3 previous sprints.