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 1

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 Figma and Canva
☐ 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*3260:** Applied system design principles and UML diagramming, as well as user stories and tech stories
☐ **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 starting this variable, I had already done a lot of frontend design work and database work, as well as learning about APIs from co-ops and even schoolwork. The extra work I needed to do was refamiliarize myself with the functionality and learn more about Tailwind, as well as refamiliarizing myself with CSS and also understanding our tech stack more and more. I would say I had a pretty good understanding of a lot of the technologies that were used in this sprint.

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?

Working on the frontend design and for this deliverable was a great learning experience. Creating the mockups helped me better understand how to represent the relationships between different components of the system. I was able to sketch out and lay out my design and process before getting into implementation. This process allowed me to identify gaps in the existing design and make improvements in a clear and structured way. Throughout this deliverable, I learned a lot about frontend development, specifically improving UI/UX and managing state effectively. I worked on making the chat application look better by adjusting the layout, styling, and ensuring the text bubbles resized properly based on message length. Using Tailwind CSS, I was able to make these changes more efficiently while keeping everything responsive. I also had to troubleshoot issues related to selecting conversations and making sure the correct user information was displayed, which helped me get better at debugging and handling errors when conversation data was missing or incomplete. Another big area of learning was state management, particularly with Zustand. I gained a better understanding of how to store and update selected conversations and messages, making the chat function more smoothly. I also worked on real-time features, like tracking whether a user was online or offline, and fixing issues with state persistence. Even though I made good progress, I still need to work on a few things. I want to improve my understanding of Tailwind and responsive design, so everything adapts better on different screen sizes. I also want to explore more advanced state management tools like Redux and dive deeper into real-time communication with Socket.io to add features like typing indicators and read receipts.

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

- I worked on the profile page

- I worked on the chat page

- I worked on the login page

- Navbar for the chat page

- I worked on the design mockups in Figma

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)?

- Worked on the profile page with Ike

- Worked on the chat page with Ike

- Worked on the login page with Ike

- Worked on the navbar alongside Ike and Eddie

- Worked on the design mockups with Ike

- Updated issues in Gitlab along with Jake, Ike, Eddie, Dawoud

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 think our time was managed properly this period. We had an initial confusion of the deadline so that was a shake-up at first, but once we understood that, we had a clear layout/plan on the things we wanted to achieve this sprint. Our communication was great during this sprint and we were able to help each other out when anyone got stuck doing anything. I think we did good as a group durong this sprint, and we were able to achieve our main tasks.