

**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: Ike Agbaje

Q2. Student ID: 1125093

Q3. Associated Team Deliverable: Sprint 3

Q4. Team #: 6

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):

This sprint required a solid understanding of our database to add the new field and reference other objects. While I didn't have prior experience with this from my degree, my work in Sprint 1 made the process much easier. I also leveraged frontend knowledge from previous sprints and my CIS\*2750 course. Additionally, I applied backend concepts I learned last sprint, though I didn't have prior experience with them before this project.

Beyond that, I also had to incorporate new skills gained during this sprint, such as passing functions and parameters between JSX files, managing React state, and using event listeners to execute tasks in parallel. While I was somewhat familiar with event listeners, this was my first time applying them in a React/JavaScript project.

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

I've gained experience with React, JSX, and TailwindCSS with DaisyUI throughout this project, and after three sprints using these technologies, I now feel much more comfortable working with them. My experience modifying a MongoDB database also came from the last sprint, but since I had prior knowledge of SQL and JSON queries from previous classes and co-ops, it was easy to transfer that knowledge to MongoDB. However, I had little to no prior experience with managing React states, creating and modifying functions, passing them, or using event listeners in React, so I had to do some personal research and learning to apply these concepts 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?

This sprint, I got a lot more comfortable with React, JSX, and TailwindCSS with DaisyUI, and I also learned how to manage React states, create and modify functions, and use event listeners. While I feel much more confident with these now, I still want to learn more about handling more complex state management and making React apps run more smoothly. I also think diving deeper into MongoDB's advanced queries and how to structure databases better would help me work more efficiently in future projects.

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

- I added a reaction icon for messages and set up the onClick function.
- I updated the frontend so that when the reply icon is clicked, the message being replied to appears above the input field for clarity. I also added a close button so users can clear the reply if they change their mind.
- I made sure that when a reply is sent, the original message is displayed along with it, using different UI styles depending on whether the message is from the user or the other person.
- I updated both the frontend and backend so that if a new conversation is opened, any active reply message disappears since it no longer applies.

- I modified the sendMessages function by adding setReplyMsg functionality with a corresponding replyMsg variable, then used them in the frontend to implement the changes.
- I updated the message model in the backend to include the new fields and made changes to the MongoDB collection to reflect these updates.
- I manually merged the message-reply branch into sprint 3.
- I tested all the new features.

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)?

- I didn't collaborate with any team members on implementing the code for the message reply changes, but during one of our final team meetings, Jake, Eddie, and I worked on trying to merge the message-reply branch to sprint 3.
- I collaborated with Jake, Eddie, Naza, and Dawoud to test all of the new features and functionality to make sure that they all work together.

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).

- We managed our time really well this sprint. None of the implementation was left till last minute, and we communicated well throughout the sprint to make sure everyone was making good progress. We did leave some of our merging till the night before which could have been a major issue if we couldn't figure it out that night, but we did so that was good.