

Q1. Student Name: Dawoud Husain

Q2. Student ID: 1146816

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):

A. Using Socketio to create a listing functionality and updating a Zustand schema accordingly

B. Front end development with the MERN stack (react components and hooks)

C. Backend development with the MERN stack (routing and controllers)

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

The only experience with working with the MERN stack was from the previous deliveries of this course. As for utilizing Socketio and Zustand I had no previous experience with working with these technologies in particular.

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?

I had to read a lot of documentation pertaining to Socketio to create a listener that uses Zustand to update the recipient's message array when someone reacts to their message. For the next sprint I want to have a deeper understanding of the Tailwind frontend library that our chat application uses to upgrade our chat interface.

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

A. Added react message functionality

- Updated message model to store reaction emoji
- Created a new controller and backend route to handle reaction requests
- Created a listener to automatically update a recipients screen when a reaction event happens
- Updated front-end to display reaction emoji and to bring up an emoji selection window when users want to send a reaction

B. Updated sprints wiki + readme

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)?

- A. Individual
- B. Individual

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).

Overall my time management was even better than any of my previous sprints, I started the coding process of the sprint early and almost completed all my backend and frontend code by the 13th of March. This allowed me to have sufficient time to debug my added functionality. As I was able to finish by the weekend I am quite satisfied with my time management.