Individual Weekly Report for Jasper Yeung

A Virtual Tabletop for Game Masters to Create Immersive Experience

August 16, 2025

# Accomplishments

* Completed the Capstone Learnings, Status Reports, Artifacts, and Annotated Bibliography sections of the Capstone Portfolio Draft.
* Performed further code cleanup and commenting for the expert to review next week.
* Performed some unit testing using Jest and performing functional testing to find validate completion of requirements and verify integrity.
* Completed documentation of testing logs of various test cases and resolution of bugs found by failed tests.
* Completed the final career prep activity by updating my Husky Handshake profile.

# Weekly Activities

| Activity / Task / Work | Hours | Status |
| --- | --- | --- |
| Capstone Portfolio Draft | 7.25 | Complete |
| Meeting | 0.75 | Complete |
| Peer Reviews | 3 | Complete |
| Code Cleanup and Commenting | 3 | Complete |
| Unit and Function Testing | 7.5 | In progress |
| Status Report | 1.5 | Complete |
| Career Prep Activity | 1.5 | Complete |
| **Weekly Total** | **24.5** |  |
| Previous Weekly Cumulative Total (Carry Over) | 147 |
| **Current Cumulative Total** | **171.5** |

# Plans for Next Week

| Activity / Task / Work | Est Hours |
| --- | --- |
| Expert Meeting and Code Review | 1.5 |
| Capstone Portfolio Draft | 1.5 |
| Status Report | 1.5 |
| Instructor Meeting | 0.25 |
| Meeting | 2.5 |
| Token Implementation | 11.75 |
| Showcase Slides | 1 |

# Response to Feedback

**BJ:** Your portfolio mentioned that your SRS document contained 65 functional requirements, 10 features, and 7 non-functional requirements. This sounds challenging to accomplish within 2 quarters, what’s your ideal schedule to achieve these requirements?

That is a good point to bring up. At the beginning of the quarter while creating the SRS document, I just wrote down all possible requirements that could be completed within the scope of the project. All the requirements were not expected to be completed. While my scheduled may have reflected an optimistic schedule, the SRS contains many requirements that are “could” requirements and features that are low priority. My goal for the SRS document was to better establish a priority so that scheduling changes could still make sufficient progress in the project during these two quarters.

**Agampreet:** Focus on keeping explanations short and to the point. The reflections should also show more of the process and reflection rather than the deep implementation details. Could also make more use of H3 headings to break up larger sections.

Thank you for the feedback. I agree that for a few sections I focused too much on technical implementation details. While I think I should mention them, I agree that it was too long in length. I also agree with the addition of H3 headings particularly for the Implementation & Progress section.

# Other Reflections

This week’s work did not achieve as much progress as I would have liked. The main time taken this week was with the peer reviews and the capstone portfolio. Compared to previous weeks, this artifact felt unimpactful to the development of the project. While I understand it is a capstone requirement and it is similar to post-mortem reports, because this is the first quarter, it feels like I could have better used the time to implement my project.

Furthermore, I encountered significant delays due to time wasted from getting Jest to function and debugging. Jest is the TypeScript unit testing framework I am using. It took a significant amount of time to get the framework working because Jest is mainly for standard JavaScript. Due to this, Jest required a significant amount of additional configuration details because I was using TypeScript with React. The Jest documentation provides a setup tutorial for TypeScript but not in combination with React which caused issues. It took a while before I found some configurations from Stack Overflow that got the framework working.

As for the debugging, there was an extremely critical issue that I encountered which I did not notice because I was testing functionality in small bursts and constantly reloading the page. When Tokens were selected and the context menu was accessed, continuous context menu accesses would take exponentially more time until the page was completely frozen. This was a critical performance bug which I had to fix even if it delayed development. After a lot of searching, I found that the bug was in how React re-renders components and that one event listener was added on each re-render. It was especially difficult to find because I had many event listeners for context menu functionality which I had to slowly narrow down.

This experience taught me how tough it must be to debug in enterprise level systems. My code base is only around 10 files, and I knew where issues could arise, but it still took a significant amount of time. But enterprise level systems are not only extensive but also were contributed by numerous people who cannot understand every part of the system. This really shows how important formal testing is as a professional software engineer.

# Comments, Issues, Notes, Anything Else?

N/A

# Evidence of Work

**Testing Logs**

The testing logs provide documentation of the tests made to cover intended code functionality and test different user behaviors. The testing logs as of now are divided into Unit Tests and Functional Tests. The functional tests have a much larger section due to react function components not being suitable for Unit Testing while some classes are included due to having more slightly more complicated functionality other than set and get functions.

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AI-generated content may be incorrect.

**Capstone Portfolio Draft**

The capstone portfolio provides an in depth reflection of the progress and work done throughout the summer 2025 quarter. The capstone portfolio draft as of this report week has completed every section except for the Career Prep Activities and Meetings section due to their related activities not yet complete until the end of week 9. The other sections including the Capstone Learnings, Status Reports, Capstone Artifacts, and Annotated Bibliography sections were all completed.

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AI-generated content may be incorrect.

**Update Husky Handshake Career Activity**

The Husky Handshake Career Activity had me update my Handshake profile which I had not updated in a few months. In it, I updated the summary, skills, courses, and project sections to reflect the current state of my career status. The document provides screenshots before and after the changes and a section that discusses the reasoning and benefits of the changes.

**A screenshot of a computer

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