Individual Weekly Report for Jasper Yeung

A Virtual Tabletop for Game Masters to Create Immersive Experiences

June 28, 2025

# Accomplishments

* Attended in-person meetings to understand the individual capstone project schedule, required documentation, and resources to use.
* Created an SRS document with functional and non-functional requirements categorized in features to be implemented.
* Began researching tools to implement a web app project that allows saving user progress in a file.
* Began drafting the design specification document including stakeholders, experts, goals, and scheduling sections.

# Weekly Activities

| Activity / Task / Work | Hours | Status |
| --- | --- | --- |
| Meetings | 5 | Complete |
| SRS Document | 6 | Complete |
| Domain Diagram | 5 | Complete |
| Tools Research | 1 | In progress |
| Design Specification Draft | 2 | In progress |
| Week 1 Status Report | 1 | Complete |
|  |  | Select work status |
|  |  | Select work status |
|  |  | Select work status |
|  |  | Select work status |
| **Weekly Total** | **20** |  |
| Previous Weekly Cumulative Total (Carry Over) | 0 |
| **Current Cumulative Total** | **20** |

# Plans for Next Week

| Activity / Task / Work | Est Hours |
| --- | --- |
| Design Specification Draft | 5.5 |
| Class Diagram | 4 |
| System Architecture Diagram | 4 |
| Tools Research | 4 |
| Meeting | 2.5 |

# Response to Feedback

BJ, Abhi, Jacob: How are you going to make the project work with multiple TTRPG systems while providing useful features?

Good point, this project will utilize a modular system where new systems can be created from a base “TTRPGSystem” class where each system can have its own features that will use other similar classes to function.

This feedback is useful for the development of the project because having both goals of useful features and a maintainable system supporting multiple TTRPG systems is a difficult goal to accomplish without well planned software architecture. This feedback further reinforces the importance of designing the system architecture well to accomplish these goals.

Some comment and feedback I gave to others was asking Ahbi Kota whether his calorie tracker app would use a database for nutrition information of products which he answered that it will use an AI to scan a nutrition label to extract the nutrition information.

# Other Reflections

The work done over this week has been useful in achieving the overall goals of the project. Because the project is in the design stage, the activities for this week contribute to the framing of what needs to be considered in the project and how these requirements can be implemented. The domain diagram was created to begin framing the objects and features that should be considered in the project. The SRS document was created to outline the requirements that will be accomplished during the development of the project and organize them in features.

The tools research and design specifications are in progress currently. The SRS document will drastically aid the tools’ research since features and functional requirements have been established, and tools narrowed down during research to implement those features and requirements. The design specification is aided by the creation of the SRS document because goals of the project were formally defined, and a better schedule could be made based on features that need to be developed. Applying these design steps before implementation made the project clearer in how it will be completed within the two-quarter time span which will help in the design specifications document.

When discussing with other students about their own projects I learned that some other students want to create mobile applications where one goal is to release them on an app store. It led me to ponder about the need for my own project to be mobile, but I realized that for the GM as a stakeholder, creating arbitrating a TTRPG with visual elements in a VTT is not intuitive so a web application is a better option. However, it did let me think about the possibility of a companion app for players on mobile to interact with the web app, but this would be a significantly lower priority feature for this project.

# Comments, Issues, Notes, Anything Else?

To complete the schedule section of the design specification document I would like to see the rest of the quarter’s class schedule to check for due dates and meetings.

# Evidence of Work

**SRS Document**

The SRS document contains the functional and non-functional requirements. Functional requirements are organized in features they are implemented in while non-functional requirements are in categories of performance and software quality attributes. Along with requirements, the features contain a description and development priority.

**A group of papers with text

AI-generated content may be incorrect.**

**Domain Diagram**

The domain diagram is a UML diagram of aggregation, composition, generalization, and association between objects that are related to tabletop role-playing games and virtual tabletops. The diagram will help developers with designing a system architecture and class structure to accomplish a maintainable, modular, and feature-rich project.

A diagram of a virtual tabchop

AI-generated content may be incorrect.