**CS 250 Final Project**

**Jon Wickerd**

**Demonstrate how the various roles on your Scrum-agile Team specifically contributed to the success of the SNHU Travel project. Be sure to use specific examples from your experiences.**

The various roles on the Scrum-agile team played significant roles in contributing to the success of the SNHU Travel project. Some of the most vital roles in this project were the Scrum Master, Product Owner, Tester, and Developer. The Scrum Master played a role in the project’s success by ensuring that the Scrum framework was effectively implemented. They also oversaw planning and executing Scrum events, troubleshooting, and promoting an agile mindset within the team. An example of their work is the scheduling of scrum meetings. The Product Owner played a significant role in the project’s success by managing the product backlog. They also acted as a mediator between the team and the client. In this role they ensured that the projects objectives aligned with SNHU goals. The Tester played a significant role in the project’s success by ensuring the quality and functionality of the project's deliverables. During the project they created test cases, identified issues, and worked closely with developers to maintain a high standard of quality. The Developer played a significant role in the project’s success by turning user stories into working software. They oversaw writing the actual code for the project. Or in other words, they created the actual deliverable for the project. They worked closely with the testers to make bug free quality code.

**Describe how a Scrum-agile approach to the SDLC helped each of the user stories come to completion. Be sure to use specific examples from your experiences.**

A Scrum-agile approach to the Software Development Life Cycle (SDLC) played an important role in helping each of the user stories in the SNHU Travel project come to completion. Some examples of experiences from this project include the use of team charter, test cases, and daily scrum meetings. At the beginning of the experience, to establish team norms and expectations, a team charter was created. The document included the vision, mission statement, project team, success criteria, key project risk, rules of behavior, and communication guidelines. By having this document if there was ever a disagreement or reminder of the standards this document could be referred to. Another example of an approach that was utilized was test cases. By creating a document to test the functionality of the code we ensured that user stories were not just completed but also met the specified quality stated in the document. The final example of an approach that helped the SDLC method was daily scrum meetings. Although we did not actually hold a daily scrum meeting, we experienced the meeting through a mock meeting. From the mock meeting it was made clear that daily scrum meetings were a fundamental part of the SDLC process. The meetings provide a place for team members to share their progress, challenges and ask for feedback/help. The meetings provide a necessary place for planning and reflection. Because of this, daily scrum meetings are one of the integral parts of the SDLC methodology.

**Describe how a Scrum-agile approach supported project completion when the project was interrupted and changed direction. Be sure to use specific examples from your experiences.**

The Scrum-agile approach provided great support for project completion when the SNHU Travel project was interrupted and changed direction. An example of an interruption during the project was in module five. SNHU Travel decided to change the overall theme UI of the deliverable. Since our team was using a Scrum-agile approach, this was not an issue. The team had a meeting to discuss what the new user story was for this new design. Once all the requirements had been discussed, the product owner adjusted the sprint backlog to meet the new requirements for the same deadline.

**Demonstrate your ability to communicate effectively with your team by providing samples of your communication. Be sure to explain why your examples were effective in their context and how they encouraged collaboration among team members.**

In module six I demonstrated my ability to effectively communicate with my team when I assumed the role of product owner. As the product owner it is my responsibility to ensure that the client needs are met. In response my team member Bryce I stated: “The idea of having more customer interaction is interesting and I believe it should be implemented. Like you said it will allow us to make changes quicker and more efficiently.” This statement alone acts as a positive reinforcement to my team member. Not only this but the response also abides by the team charter that was established in earlier modules. Finally, the communication is action oriented, I tell Bryce that we should implement the idea and I provide my reasoning for it.

**Evaluate the organizational tools and Scrum-agile principles that helped your team be successful. Be sure to reference the Scrum events in relation to the effectiveness of the tools.**

The utilization of organizational tools and following the Scrum-agile principles significantly boosted our team's performance. Tools like the product backlog and the burndown chart were very effective. For example, the product backlog allowed effective sprint planning by providing an overview of the project's requirements and priorities. During backlog refinement, they allowed us to review and prioritize user stories collaboratively, ensuring that the most critical tasks were addressed first. The Burndown chart was instrumental in tracking our progress and visualizing the completion of tasks over each sprint. During the sprint review, it allowed us to see our progress and discuss what we could do better or appreciate our hard work.

**Assess the effectiveness of the Scrum-agile approach for the SNHU Travel project. Be sure to address each of the following: Describe the pros and cons that the Scrum-agile approach presented during the project. Determine whether or not a Scrum-agile approach was the best approach for the SNHU Travel development project.**

The Scrum-agile approach used for the SNHU Travel project proved to be effective, offering several advantages but also presenting certain challenges throughout the development process. Some pros to the Scrum agile approach are adaptability, efficiency, and quality. Its adaptive nature allowed the team to seamlessly adjust to the client’s evolving requirements, ensuring that the final product meets the changing needs. By following the Scrum principles and tools, the Scrum-agile approach facilitated a streamlined efficient workflow. It ensured that the team efficiently managed tasks and met project milestones, resulting in timely and effective deliverables for SNHU Travel. A con of the scrum agile approach is the initial learning curve for new team members. Adapting to the scrum agile approach may initially impact productivity, as the new team members familiarize themselves with the new methodologies and practices. But with support and guidance from experienced team members this is negligible. The Scrum-agile approach demonstrated several benefits for the SNHU Travel project. Considering the positive impact of the scrum agile approach in enabling the team to meet project milestones efficiently and deliver high-quality results that align with the client's evolving needs, it can be determined that the Scrum-agile approach was indeed effective and suitable for the SNHU Travel project.