**Spring Review and Retrospective**

Eric Buchanan

Department of Science, Southern New Hampshire University

CS-250 Software Development Lifecycle

4/21/2023

It is my responsibility to prepare this Sprint Review and Retrospective as the Scrum Master for the SNHU Travel project, and I have done so by analyzing the work which has been performed so far, and drawing conclusions concerning the work which has been accomplished throughout the design and development process. Essentially, the purpose of this document is to examine how each role on the team contributes to the success of the project and how the agile Scrum methodology impacts the development of user stories, and how it is effective for dealing with interruptions, changes in direction, and other issues that arise during a project.

The Scrum-agile team consisted of the Product Owner, Scrum Master, and development team members who were involved in the implementation of this Scrum-agile system. In order for the Product Owner to provide clear requirements and prioritize user stories, he provided constant feedback on the progress of the product increments. As an example, the Product Owner worked closely with the development team to ensure that the search functionality met the user's expectations, for example. Throughout the project, the development team collaborated effectively, completing user stories and developing functional product increments with a high level of efficiency. In my role as Scrum Master, I was responsible for facilitating communication and ensuring that the team adhered to Scrum practices, including enforcing the daily stand-up meeting timebox that contributed to the overall success of the project.

The Scrum-agile approach enabled incremental and iterative development, which allowed the team to focus on high-priority user stories, thus enabling the team to focus on high-priority user stories. Having the Product Owner provide feedback and hold daily stand-up meetings ensured transparency and alignment with the client. The first priority we had was designing the user interface and search functionality, which was the client's highest priority. By taking a phased approach, it was possible to identify and resolve any blockers or issues quickly, such as the integration of a third-party API, enabling user stories to be completed in a timely manner.

Scrum-agile approach proved invaluable when the project was interrupted and changed direction as a result of the new client requirements. As a result of the flexibility of the approach, it was possible for the team to re-prioritize user stories and adapt to new requirements, such as adding a multi-language feature, without experiencing significant delays or disruptions.

With the Scrum-agile approach, the team communicated and collaborated effectively. We used video conferencing during a Sprint Planning meeting to clarify doubts and reach a consensus regarding the scope of the next sprint, which was a great help to the team. The team was kept aligned and focused on the project goals by holding daily stand-up meetings, Sprint Planning meetings, and Sprint Review meetings. In order to maintain transparency within a group of people, use of shared documents, such as a project wiki, and using group chats as a means of sharing progress and seeking assistance are examples of effective communication.

During the Sprint Planning, Daily Stand-ups, and Sprint Review meetings, the team was able to visualize progress and manage the workflow. The use of Kanban boards enabled the team to visualize progress and manage the workflow. The team was successful because of the collaborative nature of Scrum events, such as Sprint Planning and Daily Stand-ups. As an example, during the Sprint Review, the team assessed the completed user stories and received feedback from the Product Owner, which enabled them to make adjustments to the next sprint.

It was a proven fact that Scrum-agile provided flexibility, transparency, and adaptability to the team, allowing them to respond quickly to changes while delivering an outstanding product. Cons: The Scrum-agile approach required more frequent meetings and updates, which could be time-consuming. As a result of this approach, the SNHU Travel development team was able to deliver a quality product and efficiently handle changes in direction while delivering an effective product.

The Scrum-agile approach offered several advantages for the SNHU Travel project. One of the primary benefits was the flexibility it provided, enabling the team to adapt quickly to changes in requirements and priorities. This approach ensured that the most valuable features were developed first, maximizing the value delivered to the client. Furthermore, the Scrum framework fostered open communication and collaboration among team members, leading to better decision-making and problem-solving. Transparency was another key advantage, with regular Scrum events offering visibility into the progress of the project and enabling stakeholders to make informed decisions. Finally, the Scrum-agile approach promoted continuous improvement, encouraging the team to learn from their experiences and adapt their processes to enhance efficiency and product quality.

Despite these advantages, the Scrum-agile approach presented some challenges. One notable concern was the increased frequency of meetings and updates, which could be time-consuming for team members. Additionally, the success of the Scrum-agile approach heavily relied on the commitment and discipline of the team to follow Scrum practices consistently. Finally, the focus on working software over comprehensive documentation might result in inadequate documentation, making it challenging for new team members to understand the project's history.

he flexibility and adaptability that this approach offered were critical in handling the changing requirements and priorities, ensuring the delivery of the most valuable features to the client. Additionally, the emphasis on open communication and collaboration contributed to better decision-making and problem-solving, resulting in a high-quality product.

While there were some challenges associated with the Scrum-agile approach, such as increased meeting frequency and dependency on team discipline, the benefits significantly outweighed these concerns. The team's ability to deliver a high-quality product while effectively managing changes in direction and fostering a collaborative and adaptive work environment demonstrated the effectiveness of the Scrum-agile approach for the SNHU Travel development project.