**Software Development Lifecycle**

**CS-250**

**Sprint Review and Retrospective**

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**How did the various roles on your Scrum-Agile Team specifically contribute to the success of the SNHU Travel project?**

Our team members played a crucial role in the success of the SNHU Travel project by bringing crucial skills and responsibilities to the table. Each of the roles contributed to the project as following:

**Scrum Master:** The Scrum Master contributed to the project by facilitating the Scrum process. Through this process, the Scrum Master ensures that the team is following Agile principles and practices. The Scrum Master also helped the team overcome challenges that arised throughout the process and promoted collaboration within the team. The Scrum Master specifically contributed to the success of the SNHU Travel project by promoting improvement through retrospectives as well as by fostering a culture of learning within the team.

**Product Owner:** The Product Owner represents the customer’s and stakeholder’s voice by ensuring that their priorities and needs are addressed. Additionally, the Product Owner prioritized items found in the product backlog and made decisions during the development of the product in order to maximize the value of the product and align with the business goals. The Product Owner specifically contributed to the success of the SNHU Travel project by ensuring that the right features are being developed and that the customer’s expectations and needs are being met.

**Development Team:** The development team is composed of cross-functional professionals who work together to accomplish various tasks. These professionals are developers, designers, database administrators, testers, security experts, and performance analysts among others. The development team worked together and was responsible for the delivery of the product. These cross-functional professionals designed, tested, developed, and integrated the various features in each of the sprints. Furthermore, they made collective decisions that helped them achieve sprint goals and, through testing, they ensured high product quality. The development team specifically contributed to the success of the SNHU Travel project by ensuring the quality of the product through testing, adhering to the standards of coding, and automation which led to a functional product.

In addition, a Scrum-Agile approach to the SDLC helped each of the user stories come to completion through various ways. First, it helped each of the user stories come to completion by breaking them into tasks during sprint planning. Next, the development team helped by testing them throughout the entirety of the sprint. Then, standup meetings allowed feedback from the stakeholders to be gathered and to track the project’s progress. Finally, the adaptability of Scrum enhanced the completion of user story through a flexible framework.

During the development of the SNHU Travel project we found ourselves having to change directions and this caused an interruption to the project. The Scrum-Agile approach supported project completion by allowing for flexibility and adaptability. During times when interruptions happened, the Product Owner helped the team by adjusting the backlog and accommodating the various changes. Additionally, the development team addressed the new priorities during sprint planning and the feedback given during standups helps the team respond quickly to the changes. During week five we experienced an interruption that caused us to have to be flexible and prioritize the product presented to us by the Product Owner. Standups helped the whole team understand what the new priorities were, provide feedback, and work collectively to accommodate the new changes. This was also an excellent way and opportunity for everyone to communicate effectively their needs and concerns regarding the various changes. Additionally, team members shared different ideas regarding how the changes could be implemented and how each member could help accommodate them.

Some of the organizational tools that helped my team be successful were Jira, Microsoft Teams, and Google workspace. First, Jira helped us manage the product backlog. This tool also helped us track the various tasks and have a clear idea of our work in progress. Next, Microsoft 365 helped us communicate when our team members had any questions that had to be addressed right away and allowed for the various team members to also discuss the different changes. Finally, Microsoft 365 helped us with document editing and with the creation of the various presentations.

Finally, throughout the completion of this project we assessed the effectiveness of the use of the Scrum-agile approach for the SNHU Travel project. To do that, we made a list of pros and cons. This list gave us a clear overview of whether the Scrum-Agile approach was the best approach for the SNHU Travel development project. First, some of the pros included flexibility, stakeholder involvement, and improved quality. Scrum allowed for any changes that happened throughout the development process. These changes ranged from requirements to priorities from the customers and stakeholders. Additionally, continuous communication with the stakeholders ensured that the project was always aligned with our customer needs and expectations. Finally, the continuous collaboration, testing, and integration helped us deliver a higher product quality. Some of the cons that we found during our discussions were lack of predictability, emphasis on collaboration, and stakeholder dependency. Adaptability is one of the main principles in Scrum. The problem is that although flexibility is beneficial, this can also create difficulty when trying to predict timelines and outcomes. Furthermore, the amount of communication required under Scrum can become a challenge whenever other team members have commitments and cannot attend our meetings. Moreover, the need for the stakeholders to be constantly involved throughout the project in order to share with the Product Owner their feedback can become a problem whenever they become unavailable.

With that said, and based on our pros and cons, we believe that a Scrum-agile approach was the best approach for the SNHU Travel development project as it allowed for us to quickly make changes, when necessary, communicate effectively among the different team members, and deliver a high-quality product in time.

**Resources**

Atlassian. (n.d.). *Agile Scrum roles*. Atlassian. https://www.atlassian.com/agile/scrum/roles

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