**Final Project:**

**Sprint Review and Retrospective**

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CS 250: Software Development Lifecycle

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**Product Owner**

The product owner plays a very important role on the scrum team, responsible for ensuring that the team delivers the product to the best of their ability. The product owner contributed to the success of the SNHU Travel project by communicating directly with the client to gain a complete understanding of what they are looking for on their travel page. The product owner gathered user requests or requirements to add into the product backlog. The product backlog lists all the work that needs to be done to create and enhance the overall product, ensuring the team is working on the most important parts that aligns with the vision of the final product.

**Scrum Master**

The scrum master acts as a guide and a coach for the scrum team. The scrum master helps the team become more effective by helping them and ensures that scrum is understood across the team. The scrum master played a crucial role in the project by serving the product owner and creating an agile team charter for the team. The agile team charter helped lay out the baseline of behaviors and communication standards for the team. Having this allowed the team to have a strong understanding of expectations within the team and fosters a collaborative, friendly work environment.

**Tester**

The tester plays a crucial role in the scrum team working closely with the developers, product owner, and other team members to help deliver the product. Testers contributed to the success of the SNHU Travel project by creating pass/fail measures and retrieving clarifying information from the product owner to complete the test cases. This helped the success of the project by allowing the developers to have a full understanding of exactly what the product should look like to meet the client’s needs. Having clear pass/fail measures helps the developers understand what they are looking for when they create the product and ensures the product is working exactly as planned when testing it.

**Developer**

Developers play a crucial role in creating and designing the product for the team. Developers contributed to the success of the SNHU Travel project by writing the code. Having a team of developers ensures the software is created and functions efficiently. In the SNHU Travel project the developers were able to take the feedback from the product owner of adjusting their code to implement detox and wellness vacations into their website. The developers on the team were able to work efficiently and add into their code specific vacation spots that focused on wellness. This was a crucial step to ensure overall product success to meet the client’s vision according to current industry trends.

**Completing User Stories**

Having the scrum-agile approach to the software development lifecycle (SDLC) helped user stories come to completion by allowing continuous improvement and collaboration among team members. The scrum-agile approach allowed the product owner to understand the client’s vision of the final product and communicate that effectively to the scrum team. Having an agile mindset helped the team have excellent communication skills while working on the SNHU Travel project, specifically when the testers needed clarification on user stories and the client wanted to make an adjustment to implement wellness and detox vacations. Without a scrum-agile framework communication would potentially be delayed and not clear among the scrum team causing deadlines to be pushed back while waiting for feedback from the product owner. The scrum-agile method helped the scrum team stay on a tight deadline to create a quality product that meets the client’s needs.

**Handling Interruptions**

The scrum-agile approach supported the completion of the SNHU Travel project when the project was interrupted and changed direction by allowing the scrum team to adapt quickly and for continuous improvement. The project was interrupted when the SNHU travel management team wanted to focus more on detox and wellness vacations after the developers had created general overall travel locations of the top 10 places. A scrum-agile approach supported this change because the scrum team has effective communication across the team where the product owner was able to get the feedback from the client and push it out to the developers to implement the change. Agile allows the team to adjust to customer feedback promoting continuous improvement no matter where they are in the process.

**Communication**

The ability to communicate effectively with the team plays a crucial role in a scrum-agile environment. The product owner communicates directly with the client to gain a strong understanding of the product they are wanting. The product owner then meets directly with the scrum team to relay all the details from the client. The communication must be clear and effective for the development team to understand the client’s vision. For example, in the SNHU Travel project, the testers needed more clarifying details for their user stories. Having effective communication allows the testers to go straight to product owner to ask for more clarification. The product owner must be able to understand the exact details the testers need to complete the product while also understanding what the client is envisioning. To enhance communication among the team, there are daily standups that allow the team to discuss current progress and any roadblocks.

**Organizational Tools**

Utilizing organizational tools and scrum-agile principles helped the team create a successful product. Azure boards allow teams to see all tasks, user stories, bugs, and features that can be customized and represent stages in the workflow. Using Azure boards helped create collaboration and reduces the need for having lengthy meetings to ensure that all team members are informed. This feature helped the team remain on track, informed, and focused, leading to higher productivity and successful project outcomes.

**Evaluating Agile Process**

The scrum-agile for the SNHU project was an effective approach to use to ensure project success and completion. A pro of this approach allowed the project team to adapt quickly to any changes and fostered effective communication across the team. Being adaptable during this project helped the team understand the change that the SNHU Travel management team wanted and implement that change. A potential con of this approach during the SNHU Travel is having a lot of the communication fall on the product owner. The product owner had to communicate effectively with the client while also the development team. A product owner that is not a great communicator may struggle to understand client needs, developer needs, or miss major details leading to customer dissatisfaction and upset team members. A scrum-agile approach was the best approach for the SNHU Travel project because of the flexibility, adaptability, and customer feedback it creates. Using another approach, such as waterfall, would have caused the team to start over when a changed was presented by the SNHU Travel management team. However, using a scrum-agile approach allowed the scrum team to stay on track with its goals and make the necessary adjustments to successfully complete the SNHU Travel project.