**Final Project**

**CS-250**

**Zachary DeLong**

**A.**

Scrum Master contributed towards the success of the SNHU Travel project by ensuring that the scrum events achieved their goals by affirming the focus on progress during the meetings and events (DeLong, 2022). The Scrum master understood that these events are important because they provide transparency and inspection throughout the project allowing teams to understand what they must always work on and adapt when necessary (DeLong, 2022). A benefit of these events is that the team will build on their skills and become more accustomed to the collaborative aspect of agile development (DeLong, 2022). Also, the Scrum master coached in self-management and cross-training but let the development teamwork as a self-organizing unit and was available for whatever obstructed the team (DeLong, 2022).

The product owner contributed by having the ability to share a product vision when engaging with the users and stakeholders which was effective in minimizing project risk and confusion because the Scrum team was guided by the same product vision (DeLong, 2022). The product owner understood that open communication between everyone involved with a project is essential as it minimizes confusion, wasted resources, and potential conflict (DeLong, 2022). They also encouraged engagement between the stakeholders and Scrum teams, which helped build the team’s understanding of the customer’s expectations (DeLong, 2022). Finally, the product owner took ownership of the product and responsibly guided decision-making with a strong product vision which greatly contributed to the product’s success (DeLong, 2022).

The tester contributed by ensuring each iteration of the product meets the functionality requirements and industry standards. They kept close communication with the product owner to ensure they understood the requirements of the user stories. For instance, the tester was not certain of the requirements for user story #3 and sent out an email to the product owner for clarification.

The developer contributed by delivering high-quality, releasable increments of the booking system at the end of each sprint. They practiced self-organization and cross-functionality when developing software according to the user stories' requests. Finally, the developer contacted the product owner by email for clarification on the end functionality of the product to ensure they were achieving the product goal.

**B.**

The Scrum-agile approach helped each user story achieve completion through the application of agile development which consists of close teams working together on multiple phases at once (DeLong, 2022). The collaboration of this approach was useful when the developer, tester, and product owner needed to communicate with each other in order to move the development process forward.

**C.**

The Scrum-agile approach supported project completion when interrupted by taking an adaptive approach “where there is no detailed planning and there is clarity on future tasks only in respect of what features need to be developed.” (Agile development, n.d.). This approach tackles changing project requirements by frequent testing through iterations of builds, customer interaction, minimal documentation, and focused teamwork (Agile development, n.d.). An instance where this approach was effective was during week five and the product goal shifted toward detox travel in which the scrum team had to adjust the user stories to meet the new demands.

**D.**

Our team had effective communication by ensuring that we asked clear and concise questions that were directly related to the progress of the project. In the first email, the tester was uncertain about the requested functionality of user story #3 and needed clarification from the product owner. In the second email, the developer notified the product owner that they had finished a releasable increment and requested clarification for the final product goal before moving the development process further.

**Sample Email # 1:**

Hello Product Owner,

I have developed the test cases for user stories #1 and #5; however, I am uncertain about the end functionality for user story #3 named “Customizable Profile Settings”, but the acceptance criteria only requires the ability for users to have a personal travel preference. Any clarification on the requirements for this user story or a revised user story to guide my development further will be appreciated. I will be looking forward to your response (DeLong, 2022).

-Thanks, Zachary DeLong

**End Email**

**Sample Email #2:**

Hello Product Owner,

I have developed the travel booking system with a focus on detox and wellness. I request clarification on whether these travel packages featured in the slideshow must be exclusively wellness travel packages or a combination of travel packages with a priority to any wellness retreats available. I will be looking forward to your response (DeLong, 2022).

-Thanks, Zachary DeLong

**End Email**

**E.**

The most effective communication practice was Daily Scrums where we gathered for a brief meeting to discuss our progress and ask ourselves three main questions: What did we accomplish yesterday? What will we accomplish today? What impedes our progress? These questions kept project progress open and transparent for the entire scrum team during development (DeLong, 2022). The information radiator is very effective with the flow of agile development at creating transparency and openness by granting the “ability to update progress in real-time and rapidly view status and issues” (Cobb, 2015). This tool helped the team be successful by allowing any individual to update and communicate on any progress they have made in real-time. (Cobb, 2015). Also, Online Kanban boards helped team coordination by allowing individuals to share information with each other in real-time. (Cobb, 2015). To sum up, Agile project management tools help coordinate and increase efficiency within a team by evenly placing the responsibility of planning project efforts on everyone in the team (Cobb, 2015).

**F.**

The benefit of adaptability is a key aspect of agile methodology that is desired in the software development world and a necessity for projects that will change throughout the development’s lifecycle (DeLong, 2022). Collaborative teamwork and customer interactions are additional benefits of the agile method (DeLong, 2022). Collaboration is encouraged throughout the SDLC as it promotes less error and thoroughly reviewed code (DeLong, 2022). Also, if used correctly, the feedback received during the concurrent development and testing of the software should enhance the quality of the product and more accurately match the consumers’ needs (DeLong, 2022). Considering this, a Scrum-agile approach was the best approach for this project as the team was able to adjust efficiently to the product focus and not take a loss in overall product quality.

**References**

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