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CS 250 Software Development Lifecycle

**7-1 Sprint Review and Retrospective**

**Demonstrate how the various roles on your Scrum-agile Team specifically contributed to the success of the SNHU Travel project:**

During the SNHU Travel project, each member of the Scrum Team had specific roles and responsibilities that contributed to the success of the project. The Product Owner defined the product backlog and prioritized the user stories. Collaborating with the scrum master and using excel to formulate these stories and decide the priority of each user story allowed the team to deliver the most important features first. As the Scrum Master, I ensured that the team adhered to the Scrum principles. Facilitated the daily stand-up meetings and helped remove any obstacles that the team encountered. The ability to remove any impediments helped the team remain focused on the development and ensured that the team delivered the product increment within the Sprint. The Developers, on the other hand, were responsible for designing, developing, and delivering the code in a time frame (Sprint) that was given to them by the scrum master. Testers were tasked with making sure all the code written by the developers did as they were supposed to do in align with what the product owner hoped to achieve. Communicating with the rest of the team, especially the product owner through email and daily scrum to have more clarity on what exactly is needed to achieve through testing and create clear pass / fail measures for the developers to follow.

**Describe how a Scrum-agile approach to the SDLC helped each of the user stories come to completion:**

The Scrum-agile approach helped the team complete user stories by breaking the work into smaller increments called Sprints. Each Sprint had a time-boxed duration of two weeks, and the team focused on delivering a potentially releasable product increment by the end of the Sprint. The Product Owner defined the user stories and prioritized them based on their business value. The Developers designed, developed, tested, and delivered the features within the Sprint.

The Scrum-agile approach also included daily stand-up meetings where each team member shared their progress, discussed any impediments they encountered, and planned for the day's work. This approach ensured that the team remained focused on development and could deliver the product increment within the Sprint.

**Describe how a Scrum-agile approach supported project completion when the project was interrupted and changed direction:**

The Scrum-agile approach was highly adaptable and supported the team when the project was interrupted and changed direction. For instance, during the development, we encountered an issue with two things. Through our testers we were able to see that the product owner actually did not want a list view for the vacations and wanted more of a slideshow approach. So further development began in that approach. The code being broken up into so many smaller pieces thanks to agile methodology really came in handy to make these changes. This helped us keep the same deadline as before, which is always a great thing. One other major change that we encountered was the types of vacations the product owner wanted to promote. They did research through focus groups and meetings which led the company to believe that more wellness and relaxation vacations were about to begin trending. With quick communication administered through agile methodology principles. We really only had to swap out different vacation facilities in the code that was already still developed slideshow style. We were successfully able to achieve this without interrupting the original date for completion.

**Demonstrate your ability to communicate effectively with your team by providing samples of your communication:**

Effective communication is critical for the success of any project, and the Scrum-agile approach emphasizes collaboration and communication. As the Scrum Master, I further ensured that the team had a clear understanding of the user stories and business requirements from the product owner during the daily scrums. Asking each member these three questions is important for transparency throughout the company. "What did you do yesterday?", "What will you do today?", and "What obstacles impede your progress.". These questions help us understand what each person has done and will do. As well as give an opportunity for anyone to seek help on a particular matter at hand. Outside of the scrum. The product owner and tester communicate through email, and I shall make sure we all have a proper connection with each other to get the best result as possible for the vision of the product owner to fully understand what is and what isn’t needed for the project. As well as what's working and what isn’t.

**Evaluate the organizational tools and Scrum-agile principles that helped your team be successful:**

During the SNHU Travel project, our team used several organizational tools and Scrum-agile principles that helped us be successful. One of the most useful tools / Scrum-agile principles we used was Microsoft Teams business suite 360 to help with Collaboration. Giving us the ability to video chat and office suit supplies like using excel for user stories and testing. We found that the daily stand-up meetings were particularly effective in keeping the team aligned and focused on our goals. We also found that the sprint planning and review meetings were critical for setting and measuring our progress. We also used excel to help with Value Based Prioritization. Helping figure out what stories should be working on first / last and the value of each story. For Time-Boxing the company decided that two-week sprints would be best for the project. Last, the Iterative Development helped the Testers a lot with making sure each story was successful. Limiting the bugs and leading to a happy product owner.

**Assess the effectiveness of the Scrum-agile approach for the SNHU Travel project:**

**1. Describe the pros and cons that the Scrum-agile approach presented during the project**

The Scrum-agile approach had several pros and cons during the SNHU Travel project. Some of the pros included increased collaboration, flexibility, and responsiveness to change. By using an iterative approach, we were able to adjust our priorities and direction as needed, based on feedback from stakeholders and our own experiences. This helped us deliver a product that met the needs of our client and end-users.

However, there were also some cons to the Scrum-agile approach. One of the challenges we faced was managing competing priorities and requests from stakeholders. This sometimes led to shifting requirements and scope, which made it difficult to maintain a clear focus and direction for the project. Additionally, there were times when we felt pressure to deliver features quickly, which could compromise the quality of the code or user experience.

**6.2 Determine whether a Scrum-agile approach was the best approach for the SNHU Travel development project:**

Overall, we believe that the Scrum-agile approach was an effective approach for the SNHU Travel development project. It allowed us to work collaboratively, respond to change, and deliver a product that met the needs of our client and end-users. If this was the waterfall approach, we would have had to scrap the whole project if we wanted to make changes. However, we also recognize that there may be other development methodologies that could be effective, depending on the specific context and constraints of a project. It's important to evaluate and choose the right methodology for each project, based on the team, stakeholders, and goals involved.

**Teacher Notes:**

Hello Anthony, thanks for completing the project this week. There are some improvements that need to be made:

* **Review and Retrospective: Handling Interruptions** - here we need more context of who handle the interruptions. I do not see anything in regards to interruptions in your paper.
* **Review and Retrospective: Completing User Stories** - Make sure you know who completes the stories

Overall, good job!!