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SNHU
CS 250 Final Project
Sprint Review and Retrospective for SNHU Travel Project

1. Contributions of Various Roles:

The Product Owner plays a crucial role in ensuring that the team has a clear understanding of the project requirements and priorities. By maintaining a well-groomed backlog and continuously communicating with stakeholders, they facilitate the team's focus on delivering value to SNHU Travel. For example, in Sprint Planning sessions, the Product Owner provides detailed user stories and acceptance criteria, clarifying the team's objectives.

The Scrum Master facilitates the team's adherence to Scrum principles and remove impediments to progress. They ensure that Scrum events such as Daily Stand-ups, Sprint Planning, Sprint Reviews, and Retrospectives are conducted effectively. Additionally, They support the team in resolving conflicts and encourage a culture of continuous improvement. For instance, during Sprint Reviews, they facilitate discussions on what went well and areas for improvement, fostering a transparent environment.

The Development Team members demonstrate their expertise and commitment by collaborating closely to deliver high-quality increments of products. Each team member brings unique skills and perspectives to the table, contributing to the success of the project. For example, developers collaborate with engineers to ensure comprehensive test coverage, resulting in fewer defects and smoother deployments.

2. Scrum-agile Approach and User Story Completion:

The Scrum-agile approach facilitates the completion of user stories by breaking down the project into manageable increments and focusing on delivering value iteratively. By prioritizing user stories based on business value, the team can ensure that the most critical features are implemented first. Daily Stand-ups allow team members to discuss progress, identify obstacles, and adjust their approach as needed to meet Sprint goals. For instance, in one assignment, I focused on implementing the booking feature, which involved multiple user stories such as user authentication, search functionality, and payment integration. By breaking down these user stories into tasks and estimating their effort collectively, I was able to deliver a functioning booking feature by the end of the Sprint.

3. Scrum-agile Approach and Project Adaptation:

When the projects face interruptions or changes in direction, the Scrum-agile approach provides flexibility and adaptability to the team. For example, midway through the project, SNHU Travel requested additional features to enhance user experience based on early prototypes. Instead of derailing the entire project, I incorporated these changes into upcoming Sprints by reprioritizing the backlog during Sprint Planning sessions. The iterative nature of Scrum allowed for accommodating changes without compromising the project timeline or quality.

4. Effective Communication:

Effective communication is key to the success of any team. It's important to utilize various channels such as Daily Stand-ups, Slack channels, and Sprint Reviews to exchange information and coordinate efforts. For example, during Daily Stand-ups, team members can

share updates on their progress, discuss any impediments, and help to overcome challenges.

Additionally, it's crucial to maintain an open-door policy where team members can reach out for help or clarification whenever needed. This type of encouraged collaboration ensures that everyone is aligned towards the project goals.

5. Organizational Tools and Scrum-agile Principles:

Jira can be utilized as a primary tool for backlog management, Sprint planning, and tracking progress. Jira can help teams visualize a Sprint backlog, monitor the status of user stories, and identify any bottlenecks in the workflow. By leveraging features such as Kanban boards and burndown charts, you can gain insight into a team's velocity and adapt an approach accordingly.

Scrum events such as Sprint Planning, Daily Stand-ups, Sprint Reviews, and Retrospectives provide structure to development process and facilitate collaboration among team members. These events allow a team to inspect and adapt our work, address any issues in real-time, and continuously improve our practices.

6. Effectiveness of Scrum-agile Approach:

Pros:

- Flexibility: The iterative nature of Scrum allows us to adapt to changing requirements and priorities.
- Transparency: Regular Scrum events promote transparency and visibility into the project's progress.
- Collaboration: Scrum encourages collaboration among team members and fosters a sense of ownership and accountability.
- Incremental Delivery: By delivering increments of the product iteratively, we were able to gather feedback early and incorporate it into subsequent iterations.

Cons:

- Learning Curve: Transitioning to a Scrum-agile approach required a learning curve for team members accustomed to waterfall methodologies.
- Time Commitment: Scrum events such as Daily Stand-ups and Sprint Reviews requires dedicated time commitments from team members, which could be challenging to balance with other responsibilities.
- Dependency on Product Owner: The effectiveness of Scrum relies heavily on the Product Owner's availability and ability to prioritize the backlog effectively.

Overall, the Scrum-agile approach proved to be effective for the SNHU Travel project, enabling us to deliver value incrementally, adapt to changes, and foster collaboration within a team. While it presented some challenges, the benefits of flexibility, transparency, and collaboration outweighed the drawbacks. Therefore, I believe that adopting a Scrum-agile approach for future projects would be beneficial for ChadaTech, promoting innovation, efficiency, and client satisfaction.